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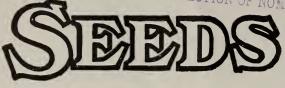
# J. W. ROSS CO.

SEEDSMEN, FLORISTS AND NURSERYMEN

CENTRALIA -

1916

BERUAN TO POMOLOGY



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SECTION OF NOMENCLATHRall up-to-date localities a properly equipped seed store is now considered indispensable. It is very generally admitted that the seed needs of a commu-

nity can be taken care of best at the home seed store. The old custom of sending away for seeds is growing less each year and for this reason the home seed store is becoming more firmly a fixture and better able each year to meet the increasing demand for fresh, reliable seeds.

Some of our friends may still cling to the idea that they gain something by sending away for their seeds. All we ask of such is a chance to show that the idea is wrong.

Our Catalogue describes all of the best standard varieties and the newer kinds that have become popular. Our supplies are from the right sources and we offer them at the right prices. We are prepared to fill all orders and solicit the trade of the Market Gardener as well as the amateur planter.

We make a specialty of seeds for the town garden and for the farm garden. Good Seeds are necessary if good crops are expected, and our success depends upon selling you that kind. Call or write, and be sure to let us figure on your order.

# **Fertilizers**

Fertilizer Values Vary. Write for Prices. The value of Commercial Fertilizer is well known. There are many different brands and combinations —each of which has its value for certain crops and conditions of soil. The element that is lacking in the soil is what the special fertilizer supplies. Write for our prices and for information as to kinds.

# Insecticides



Bug Death. This new preparation new preparation comes highly recom-mended after a six years' test. It is sure death to the Potato Bug, and be-sides it acts as a fer-tilizer Theore are tilizer. There are many testimonials at hand from very large potato growers. From the reports that we have received in re-gard to this new insecticide we feel much confidence in

much confidence in offering it with our indorsement to any of our cus-tomers who want a quick acting, sure, non-poison-ous bug killer. It can be used on all vegetables and fruit crop and will give excellent results. I lb. package, 15c; 3 lb. package, 40c; 5 lb. pack-age, 60c; 12<sup>1</sup>/<sub>2</sub> lb. package, \$1.25; 100 lb. keg, \$8.00. Slug Shot (Hammonds). Excellent for destroy-ing cabbage, turnip and beet fly, potato bugs, cur-rant worms, etc. Prepared ready for use. 5 lb. package, 30c; 10 lb. package, 50c.

# Local Names of Seeds

We frequently have calls for seeds under names that are not generally found in the catalogue. In most cases of this kind there is a standard cata-logue name for the article and we usually locate it easily from the description the customer gives of it. If you do not recognize the desired article from the catalogue names let us know and we shall endeavor to locate it and get it for you if we do endeavor to locate it and get it for you if we do not have it in stock.

# Sundry Requisites and Supplies

There are many requisites and supplies that we do not have room to list in our catalogue. We aim to have all seasonable articles on hand and can supply all of these at the time they are required. There are different makes of tools, different brands of requisites and different kinds of supplies all hav-ing merit. When we know what you prefer in any of these lines we can meet your requirements. of these lines we can meet your requirements.

# Bulbs, Plants, Etc.

Bulbs, Plants and Shrubs are in a class by them-selves. There are bulbs for spring planting and bulbs for fall planting. Some shrubs do best when planted in the spring, others when planted in the fall. Roots of the perennial plants may be planted in fall or spring. Plants of the small fruits usually do best when planted in the spring. When ready to order your supplies in this department let us fig-ure on your needs.

TURN TU SOL	OGY		N/ 01018
J. W. ROSSOMEOM		NY,	CENTRALIA, ALLYNOIS
BEANS. Dwarf or f			CELERY D 1C 191
Green podded sorts			MAK Lekg. Oz
	Pt.	Qt.	White Plume (French Grown) 22 Golden Self Bleaching 110 DEMED 1.22 Golden Hoart 29
Improved Red Speckled Valentine_ Burpees Stringless Greenpod		40 $40$	Golden Heart 5 2
Wax or Yellow Poded V		-	Kalamazoo 5 3
~			- SWEET CORN
Davis White Wax	Pt.	Qt.	Pt. Qt. Pk
Golden Wax	20	40	Early Minesota         10         15         9           Country Gentlemen         10         15         1.1
Curries Rust Proof Black Wax	. 20	40	Stowels Evergreen 10 15 1.0
Pole Beans			Early Champion         10         15         1.0           Mommoth White Cory         10         15         1.0
	Pt.	Qt.	Mommoth White Cory         10         15         1.0           Adams Early         10         15         7
Dutch Case Knife	20	40	Golden Bantam 15 30
Kentucky Wonder or Old Houest'd.	$\frac{20}{20}$	$\begin{array}{c} 40 \\ 40 \end{array}$	POP CORN
Lazy Wife Cut Short	20	40	I OI COILL
Hartic ultural Crauberry	20		Pt. Qt.
Early Goldən Cluster, yellow pod	20		Golden Queen         10         20           White Rice         10         20
Líma Beans			
Bush Varieties			CUCUMBERS
Handamana Dual Tim	Pt.	Qt.	Pkg. Oz. ¼1t Davis Perfect 5 10 30
Hendersons Bush Lima Burpees Bush Lima		40 40	Long Green
	20	10	Improved White Spine 5 10 25
Pole Limas		<u>.</u>	Chicago Pickling 5 10 25 Fordhook Pickling 5 10 25
Danly Jonger	Pt.	Qt.	Earl Clutter 5 10
Early Jersey Seiberts Large Early	20 20	$40 \\ 40$	EGG PLANT
Extra Large Early White	20	40	Pkg. Oz.
King of the Garden	20	40	New York Improved Purple 10 50
BEETS			ENDIVE
	Pkg.	Oz.	Pkg. Oz.
Detroit Dark Red	5	10	Green Curled 5 10 White or Yellow Curled 5 10
Crosby Ex Ea Egyptian Edmonds Blood Turnip	5 5	10	
Extra Early Blood Turnip	5	10 10	KALE
Stock Beets			Dwarf Scotch 5 10
	kg, Oz.	1/1b.	LEEK
Mammoth Prize Long Red		15	Pkg, Oz.
Golden Tankard	5 8	15	American Flag Leaf 5 20
CABBAGE			LETTUCE
	Pkg.	Oz.	Pkg. Oz. 1/11
Extra Early Express	5	15	Grand Rapids Forcing 5 10 30
Extra Early Jersev Wakefield Extra Early Winningstadt	5 5	15 15	Iceberg510Early Curled Simpson51025
Early Flat Dutch	5	15	Prize Head
All Season	5	15	Black Seed Simpson 5 10 Hanson 5 10
Burpees Sure Head Premium Late Flat Dutch	5 5	15 15	Hanson 5 10 Big Boston 5 10
Danish Ballhead	5	$15 \\ 15$	Butter Cup 5 10
Savoy Red Dutch	5 5	15 15	Tomhannock 5 10 Salamander 5 10
	Ð	10	
CARROTS	Pkg.	07	MELONS, Musk Pkg. Oz. II
Oxheart		Oz. 10	Rocky Ford 5 10 6
Chautney	5	10	Burrells Gem 5 10 7 Osage 5 10 7
Long Orange French Forcing	5 5	$10 \\ 10$	Osage         5         10         6           Ea Hackensack         5         10         6
Danvers Half Long	5	10	Emerald Gem 5 10
			Gold Lined Delicious 5 10
CAULIFLOWER		Diam	MELONS, Water
Extra Early Snowball	<sup>1</sup> / <sub>2</sub> Pkg. 15	25 Pkg.	Pkg. Oz. 1 Kleckleys Sweet
Danish Dry Weather	15	25	Rattle Snake 5 15
Early Paris	5		(continued on next page)

MELONS, Water.	continued						
0	Pkg. Oz. 1b.						
Sweetheart	5 10						
Cuban Queen Black Boulder	$5 10 \\ 5 10$						
Peerless	5 10						
Tom Watson	5 10 65						
MUSTARI							
Southern Giant Curled	Pkg. Oz. 5 10						
OKRA							
White W. last	Pkg. Oz.						
White Velvet Dwarf Green	$5 10 \\ 5 10$						
ONIONS	0 10						
ONIONS							
Yellow Denver	Pkg, Oz. 5 15						
Red Wethersfield	5 15						
Silver King	5 20						
Prize Taker White Globe	$5 20 \\ 5 20$						
Ked Globe	5 20						
Australian Brown	5 20						
PARSLEY							
	Pkg. Oz.						
Moss Curled	5 10						
PARSNIP							
Hollow Crown	Pkg. Oz. ¼1b.						
	5 10 25						
PEAS							
Alaska	Pt. Qt. 15 25						
First and Best	15 25 15 25						
American Wonder	15 25						
Suttons Excelcior Thomas Laxton	$   \begin{array}{cccc}     15 & 25 \\     15 & 30   \end{array} $						
Telephone Large Marrofat	15 25						
Large Marrofat	15 25						
Mommoth Melting Sugar Ross Giant Poded Midget	20 20						
the largest poded extra early	y pea						
PEPPER	'						
Long Red Cayenne	Pkg. Oz. 5						
KUDV KINg	5 25						
Chinese Giant	10						
PUMPKIN							
Connecticut Field	Oz. $\frac{1}{4}$ lb. lb. 5 15 35						
Japanese Pie	Pkg. 5						
Large Tours	5						
RADISH							
White Strausberg	$^{2}$ kg. Oz. $\frac{1}{4}$ lb. lb. 5 10 20 35						
White Icycle	5 10 20 35 5 10 20 35						
Long Scarlet Short Tep	5 10 20 30						
Crimson Giant French Breakfast	5 10 25 40 5 10 20						
Ea Scarlet Turnip White Tip	$5 10 20 \\ 5 10 20$						
Gt Stutyart	0 10 20						
D (11.1. TTT)	5 10						
Rose China Winter	5 10 5 10						
Rose China Winter Round Black Spanish Long Black Spanish White Box	5 10						

### CALCADY OD

SALSAFY OR OYSTE	ERPI	LAN	TI
Mommoth Sandwich Island		kg.	Oz.
		5	15
SAGE		1	~
Broad Leaved		vkg. 5	Uz.
SPINACH			
	,	Oz. 1	
Bloomsdale Long Standing		75	15 15
	U	U	10
SQUASH			
Summor Creakered	P	'kg.	Oz.
Summer Crookneck White Bush		5 5	$\begin{array}{c} 10 \\ 10 \end{array}$
Warted Hubbard		5	10
Delicious		5	10
Ford Hook Mammoth Chili		$\frac{5}{5}$	$\begin{array}{c} 10 \\ 10 \end{array}$
TOMATO		0	10
IOMATO		.1	~
Matchless	F	°kg. 5	Oz. 15
New Stone		5	15
Earliana		5	15
Earliana Selected Strain Ponderosa		$\frac{10}{5}$	$rac{40}{25}$
Pink June		10	35
TURNIP			
Purple Tep White Miles	Pkg.	Oz. 10	1b, 1.00
Purple Top White Milan Extra Early White Milan	5 5		1.00
Purple Top Strap Leaf	5	8	65
Purple Top Globe White Globe	5 5	8	65 65
RUTA BAG	0	Ŭ	00
RUIA DAG		0	11.
American Purple Top	Pkg. 5	10	1b.
interieur rupie rop	0	10	
SWEET DEA	C		

#### SWEET PEAS

	Per Pkg.
Fine Mixed	5
Butterfly Mixed	15
Spencer's Mixed	10
1	

### NASTURTIUM

	Oz.	Pkg.
Dwarf Mixed	10	5
Tall Mixed	10	5

### FARM SEEDS

The prices on farm seeds fluctuate so that it is impossible to quote prices in advance, we will be glad to quote you our best prices on your list of farm seeds from time to time on request.

DISCLAMOUR. While we exercise the ... utmost care to have everything true to name and stand ready to make any error on our part good, so far as possible, yet we in company with all reliable seed houses do not stand reponsible for any crop failure, and if the seed are not accepted on these terms they should be returned at once.

J. W. Ross Co.

#### TORN TO POMOLOGY AR 16 1916 SECTION OF NOMENCLATURE,

ARTICHOKE

The Globe Artichoke is cultivated for its flower-heads, which are cooked like asparagus. Plants set in any good soil, with slight covering in winter, will remain in bearing several years. Large Green Globe. The standard variety. Jerusalem. This variety is not produced from seed, but is culti-vated for its tubers which are especially valuable for stock feeding.

We use every effort possible in the selection of our seeds, and feel justified in saying that all our seeds are the pwrest and best to be found, but at the same time, their being so many things beyond the control of man that spoil the best seeds and cause poor crops, that it is impossible to guarantee seeds. Therefore, while we exercise great care to have all seeds pure and reliable, we sell no seeds with warranty, expressed or implied in any respect, and are not in any way responsible for the crop. Prices of Seeds vary. We quote Market Values upon request and always give our customers the benefit of the lowest price that the market condition will warrant. Special prices on a general list will be given

upon application. LET US HEAR FROM YOU.



ASPARAGUS

**GREEN GLOBE GREEN GLOBE ARTICHOKE** and covering from six to eight inches. On the approach of winter cover with manure use the second year after planting, in permanent bed, **COLOR** 

### ASPARAGUS SEED

Columbian Mammoth White. A new and entirely distinct variety that produces shoots that are white, and remain white as long as fit for use. Conover's Colossal. The standard variety; of large size, tender and of excellent quality. Palmetto. It is of very large size, even and regular in growth and appearance

Paimetto. It is of very large size, even and regular in growth and appearance. It is a very early sort, and immensely productive and of the best quality.

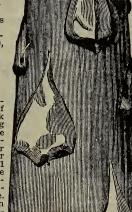
#### ASPARAGUS ROOTS Two Years Are Gained if Roots Are Planted.

Columbian Mammoth White. 2-year-old roots. Conover's Colossal. 2-year-

Conover's Colossal. 2-year-old roots. Barr's Mammoth. 2-year-old-roots Palmetto. 2-year-old roots. Prices on any variety of 2-year-old roots per 100, 75c; per 1000, \$6.00.

#### **BRUSSELS SPROUTS** One Ounce of Seeds to 100 Yards of Row.

100 Yards of Row. A variety of the Cabbage fam-ily, possessing the peculiarity of bearing upon its stem or stalk from 50 to 100 buds resembling miniature Cabbage heads. The leaves composing these heads re-semble Savoy Cabbage in their crumpled texture and also in their color. The heads or buds, from 1 to 2 inches in diameter, form one of the most delicious garden vege-tables, only equaled by the Cauli-flower. Treat same as Cabbage. Autumn-grown Sprouts, drilled in May and transplanted in July gen-erally do best, as the plants are quite hardy and the buds mellow under frost.



ASPARAGUS CONOVER'S COLOSSAL

#### BROCCOLI

#### One Ounce of Seed to 100 Yards of Row.

A plant much resembling the Cauliflower, and like it derived from the wild Cabbage. Broccoli requires a longer season to develop than Cauliflower. It has more numerous and stiffer leaves, and the heads are smaller. Large Early White. Large white head, resembling Cauli-

flower.



BRUSSELS SPROUTS

#### **BUSH BEANS**

Beans are easily frost killed, so plant them at corn planting time on light dry land. Cold, wet weather will rot the seed in the ground and fresh manure causes a rank growth of vine with a lack of pods. If hand cultivated, beans can be drilled in poor soil as close as eighteen inches; but in rich soil with horse cultivation thirty inches is required. Drill six beans to the foot and cover one inch deep; or plant in hills eighteen by twenty-four inches. One quart should plant 250 feet and two bushels plant an acre. Expect a picking after six weeks. Plant every third week for a succession up till Aug. 1st in the latitude of Chicago. Pick beans before the bulge of seed appears, and pick beans clean to continue the plants bearing. Give beans shallow culti-vation, and do not till the soil when the plant is in bloom or the plant in self-defense will drop its bloom. To cultivate when wet is to invite rust.

#### Green Pod Varieties.

Refugee or 1000 to 1. The vines are large, spreading, exceedingly hardy, with small smooth leaves, very late and bear long cylindrical green pods of excellent quality. Highly esteemed for late planting and for use as Pickles.

Black Valentine. A very hardy and productive green podded sort, with strong, vigorous vines. Pods rather flat but very handsome, much longer, straighter, less fleshy than the Red Valentine, the plant a little more spreading, and in season a little later. 1

#### BUSH BEANS, Green Pod-Continued

BUSH BEANS, Green Pod—Continued
Burpee's Stringless Green Pod. A very desirable green podded snap sort for the more garden and largely grown for the market. The vine is vigorous, spreading and productive. The pods are larger than those of the Red Valentine, but are quite as fleshy, of equally high quality and remain crisp and tender longer.
Early Red Valentine. For snaps there is nothing superior to this variety among the dwarf green podded sorts both for the home and market garden and many greefer it to the wax varieties. Vines medium to large, erect, with dark green leaves. Pods medium length, curved, cylindrical, with crease in back, very fleshy, crisp and tender.
Barky Mohawk. One of the oldest and best known sorts. The pod is green, thick, flat in shape, of fair quality, developing a slight string as it adtress. Is ready to pick 48 days from planting, and will resist a slight degree of frost very successfully.
Black Valentine. This excellent variety is a greeat improvement over the old standard early Red Valentine, being one-third longer than that variety is na excellent shipper, a large yielder, and of very handsome appearance.
Extra Early Refugee. Very much earlier than the Old Style Refugee or 1000 to 1. More dwarf and compact in growth.
Long fellow. This new bean has long green pods, is exceedingly prolific, always solid, a delicious flavor, is tender and remarkably early. It matures its crop very regularly and withstands adverse conditions well. A good bean for market or home use.
Long Yellow Six Weeks. The vine is large, vigorous, branching and pro-

for market or home use. Long Yellow Six Weeks. The vine is large, vigorous, branching and pro-ductive, with large leaves. Pods long, straight, thick, flat in shape, green in color, of good quality when young and fair as they near maturity. Tennessee Green Pod. This dwarf snap bean, although new to the Seed Trade, has for several years been grown in the South, and wherever known is freely spoken of in terms of highest praise. Dwarf Horticultural. Vines very productive, compact, upright, with large leaves. Pods medium length, cylindrical, curved, with splashes of bright red on a yellowish ground.

Interface
 Pheasant Eye. A valuable new green podded variety. Vines hardy, sturdy, well leafed. Pods long, meaty, stringless and of excellent quality.
 Bountiful Beans. This new green podded Bush Bean is a heavy cropper and very early, of fine shape, stringless and good quality.
 Glant Stringless Green Pod. A very hardy, stocky vine, pods long, round and green in color, of exceptionally fine quality and stringless throughout its entire growth.
 Low's Champion. Large, green, flat, stringless pods.
 Early Mohawk.
 Boston Pea Bean.
 Prolific Tree.

### DWARF LIMA VARIETY

As limas require even more heat than other beans, a failure will follow a too early planting. The beans when favorably planted throw out from what we term the bean's eye a stout root; this root in turn lifts the bean above the ground. The bean then opens its halves, or false leaves or cotyledons and the true leaves soon follow. If in planting the bean is thrust into the soil eye down and just below the surface, the bean is in a favorable position to begin its growth. However, the crop can be secured though with a lesser percent of germination by dropping the bean in any noeition.

Bush limas are earlier than pole limas and are planted in twenty-four to forty inch drills, three to six inches apart in the row according to varie-ties. One quart plants one hundred twenty-five to one hundred fifty feet. Treat pole limas like other pole beans, using one quart to one hundred hills

Burpee's. The bush form of the true, luscious, large lima. Fordhook. The bush form of the chubby or Potato Lima. Henderson's. This is a bush form of the small Seiva pole bean.

### BUSH BEANS, WAX POD

BUGE DECARS, WAS POOD
Development of the best of the context of the best for cooking in a dry state.
The dest was the old standard wax sort.
The pool are context, flat in shape, and of a beautiful yellow color and fair quality.
The old standard wax sort.
The pool are context, flat in shape and of a beautiful yellow color and fair quality.
The old standard wax sort.
The pool are context, flat in shape and of a beautiful yellow color and fair quality.
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The old standard wax sort.
The pool are context, flat in shape and of a beautiful yellow color and fair quality.
The pool are context, flat in shape and of a beautiful yellow color and fair quality.
The pool are context, flat in shape and of a beautiful yellow color and fair quality.
The pool are context, flat in shape and of the best market for the pool are flat for the pool are context.
The pool are context, brittle, of handsome golden yellow color, and of buttery flavor when cooked.
The pool are context way and the good leaf the covering and bearing in profusion.
The pool are context way and the good leaf covering and pool are flat for the flat, thick meated stringless and of exceptional quality. A strong proving bush variety of remarkable vigor and freedom from rust. The pools are meatry and well filled, thick the soft way fare planting.
There is a flat proof wax. An excellent Wax Bean in every respect. Rust proof, thender, thick flat pools of the market planting.
The improved Prolific Black Wax, which is one of its parents. The other parent is the Round pool Refugees and productiveness, and its long, slender, straight, handsome pool shaped very much like a pendi.
The improved Prolific Black Wax, which is one of its parents. The other parent is the Round pool Refugees and productiveness, and its long, slender, straight, handsome pool shaped very much like a pendi.
The improved Prolific Black Wax, which is one of its parents. The other parent is the Round pool Refugees and produ

EARLY RED VALENTINE



### POLE BEANS

The pole bean climbs, sometimes needing a little training over any support given to it, be that support the growing corn stalk; rough stakes from the wood lot; bamboo or painted stakes; chicken wire or a convenient fence; supported wires or strings or some porch or trellis. A good practice is to set firmly in the ground every three or four feet each way, poles that are, when set, about six feet. Some time after bunch beans are planted, six or eight beans are planted one inch deep near the base of each stake and later thinned to three or four plants to the pole. One-half bushel of pole beans generously plants an acre, and one pint plants one hundred hills. The pole bean bears over a longer period than the bunch bean and is generally considered of superior quality, but it requires more labor, longer time to mature, and is more sensitive to adverse climatic and soil conditions. Note that this vine turns only one way around its support. When too old for use as a green snap bean, use any bean shelled, or still later, when it is hard and dry, it remains equally serviceable.

Kentucky Wonder. Vine vigorous, climbing well and very productive, dry beans, long, oval, dun-colored. Scarlet Runner. A great favorite, both ornamental and useful.

London Horticultural, or Speckled Cranberry. Beans large, ovate, splashed and spotted with wine red, and of the highest quality, either green or dry. Red Speckled Cut Short. (Corn Hill.) This is the best sort to plant in hills of corn.

Dutch Case Knife. Vines me may be used for a corn hill bean. Vines moderately vigorous, climbing well, but twining more loosely than some and so

Dreer's Improved Lima. Also called Challenger Lima, Thorburn's Lima, Potato Lima, etc. This is a bean of rather peculiar shape, being thick and plump rather than flat and oval.

King of the Garden Lima. This is the grand old standard market and family sort, which nothing can displace from public favor.

White Creaseback. This variety is especially valuable for its extreme earliness.

Lazy Wife. Immensely popular everywhere.

Small White Lima, Carolina or Sleva. Very early and productive, pods short, curved, thin, flat, beans white, small, kidney-shaped.

Slebert's Early Lima.....

### THE SEED SHORTAGE

So urgent has become the European demand for Food due to the war that very frequently their seed crops have had to give way to the growing of such crops as may be utilized for food. In many cases, the majority of experienced employees of the best foreign seed growers have been called to the war, leaving behind only those who are either too young or too old for war services to look after the growing and harvesting of seed crops. This will of necessity mean a lessened production and perhaps a production of some inferior seed. In America adverse weather conditions from planting until harvest time, early frost, anthracnose in beans, etc., joined with the unusual foreign situation to make the seed production for this year much less than normal. Therefore we advise the early buying of seed before some of the varieties wanted are exhausted.

### TABLE BEETS

As soon as the soil can be worked in spring sow beet seed in twelve to eighteen inch drills for hand hoeing or eighteen to thirty inch drills for horse cultivation, dropping twelve seed to the foot. Cover the beet seed, which is really a beet fruit containing one or more seeds, one-half inch deep. Later thin the beets to stand five to the foot. Planted April first the early varieties should be marketable June first or the crop may be advanced several weeks by starting under glass and transplanting to the open, first giving the beet tops a severe pruning. Use one ounce of seed to one hundred feet of row, and five or six pounds to the acre. Beets sown in early July should be ready to store in pits or in sand in the cellar when freezing weather begins.

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**CROSBY'S EGYPTIAN** 

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### MANGEL WURZELS

Mangel Wurzel, called also stock beet, or cow beet, is a very large beet growing mostly above the ground and all stock eats it greedly. Plow the soil for it deeply and in May or June, plant six Mangel seed to the foot in two to three foot rows, later thinning to a ten inch stand. One ounce sows generously one hundred feet of row, and an acre requires five to six pounds. When a light frost has occurred, lift the roots, store in pits or cellars and the mangels are soon ready for feeding. Long Red. A large, long variety grown for stock feed-ing. It stands up well above the surface; color light red; flesh white and rose colored. Mangel Wurzel, called also stock beet, or cow beet, is a

flesh white and rose colored.

Yellow Globe. Globular shaped roots. More productive than Long Red in shallow soil. Very nutritious and a good keeper.

Golden Tankard. Shape cylindrical, color deep rich yel-low, flesh yellow circled with white. Unequaled for feeding stock.

Norbiton Giant Long Red. Very large, excellent variety for feeding stock. Orange Globe. We think this one of the best varieties

of mangel wurzel.

### SUGAR BEETS

The Sugar Beet, grown for the manufacture of sugar, and frequently used for stock feeding, is a yellowish white beet, smaller than the mangel, but containing a much greater percent of sugar. In growing the sugar beet is treated like the mangel, except that only six or eight inches of space is given each beet in the row.

Vilmorin's Improved Sugar. In general the most desir-able beet for the factory is the one containing the largest percentage of sugar. In this variety we have one of the richest beets in cultivation.

Klein Wanzleben. A little larger than Vilmorin's Im-proved, yielding from twelve to eighteen tons per acre, and containing about the same amount of sugar. It grows

below the surface, and the green leaves are rather large and spreading, with wavy edges. Lane's Imperial Sugar. Good for making sugar, also stock feeding. A hardy and productive sort. Yields four-teen to sixteen tons per acre, and contains about 16 per cent of sugar.

Giant Half-Sugar. This unites the large size of the mangel with the greater feeding value of the sugar beet. The roots average ten to twelve inches, and the outline is that of a broad, thick wedge. The upper portion is of a soft bright pink, shading lighter toward the bottom where the lower portion for about one-third the length is white.



#### **GOLDEN TANKARD MANGEL**

## CARROTS

The carrot, whether used raw, fried, boiled, or stewed; used alone or combined with other vegetables or meat, is not surpassed in nutritious healthfulness by any other vegetable catalogued. Plant carrots in the latitude of Chi-cago from the time the soil can be worked in Spring till July 1 in one to two-foot rows for hand cultivation, or in thirty-inch rows where a borse-drawn tool is used. Use one ounce of seed to one hundred feet of row, three or four pounds to the acre, covering one-half inch deep, and later thin to a four-inch stand. To cultivate the rows at an early date sow radish seed, which germinate quickly, with carrot seed, which germinate slowly. Do not over-look the value of this crop as a stock food.

Toth points to the acte, correcting other harminate quickly, with carrot seed, look the value of this crop as a stock food.
Early Short Horn. A fine early variety, good for home use. Eastern market gardeners use this sort for bunching.
Guerande, or Ox Heart. Tops small for the size of the roots, which are comparatively short, but often reach a diameter of 7 inches, terminating abruptly in a small tap root. Flesh, bright orange, fine grained and sweet. This is a desirable variety for soil so hard and stiff that longer growing sorts would not thrive in it. When young, excellent for table.
Chantenay. Tops medium size; necks small; roots tapering slightly, but uniformly stump rooted and smooth; color, deep orange red; fiesh very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any, is a heavy cropper, and is undoubted of usable size as early as any, is a heavy cropper, and is undoubt.
Danvers. Grown largely on account of its great productiveness and adaptability to all classes of soil. Tops medium sized, coarsely divided. The smooth and handsome roots are deep orange, of medium length, tapering uniformly to a blunt point; flesh sweet, crisp, tender and of a deep orange color. This is a popular field variety, and although the roots are deep orange to a blunt point; flesh sweet, crisp, tender and of a deep orange color. This is a popular field variety, and although the roots are shorter they produce as large a bulk as the longer field sorts and are more easily harvested.
St. Valery. A good late variety Grows long, shape uniform, tapering uniform, tapering uniformly, grow to a large size, and are extensively grown for stock feeding.
Improved Long Orange. The most popular of the older sorts for farm use on mellow soil. An improvement obtained by years of careful selections of the best formed and deepest colored roots of the old Long Orange. Roots comparatively shoriter than the Long Orange and smoother, b



DANVERS CARROT

### CAULIFLOWER

Cauliflower, while it resembles cabbage and requires very much the same treatment as outlined under and for cabbage, is not so hardy as cabbage, needs more water, needs more cultivation and requires generally treat-ment superior to cabbage. Cauliflower cannot be expected to mature satisfactorily in hot, dry weather, and as it requires one hundred ten to one hundred fifty days for different varieties to mature, its planting should be cor-rectly timed. Start cauliflower under glass or where cabbage plants can be wintered, winter cauliflower. One ounce gives two thousand five hundred plants and one-fourth to one-half pound of seed plants an acre. When the head or heart of cauliflower, as you may think or feel of it, called the "curd," appears, tie the outer leaves over the head or pin these leaves with wood pins or beef skewers so the leaves will shade and blanch the curd and then cut the curd before it starts to branch. Remember that all the enemies of cabbage emphatically attack cauliflower and are to be combated in a like manner. cauliflower and are to be combated in a like manner.

**Early Snowball.** The leading cauliflower in all sections, and unquestionably the purest strain of cauliflower seed to be had. Heads uniform, of desirable market size and of snowy whiteness. After seven years' competitive tests it is pronounced by expert cauliflower growers to be the best for both early and late planting.

Large Algiers. A valuable late sort sure to head, of the best quality, and very popular with market gardeners everywhere. Plant large, but of upright growth, the leaves protecting the heads so that they will endure uninjured a frost that would ruin other sorts. One of the very best of the late sorts.

#### CELERY

Press celery seed into the ground, do not try to cover it, and when seed is kept wet and not above 60° F. germination oc-curs in ten to twenty days. Cel-ery needs four to five months from ery needs four to five months from seed to use, so very early celery should be started in hotbeds after January, and when two inches high transplanted or thinned to a space of two inches. Later trim the tops to produce stocky plants and when five inches high set where plants are to mature, first trimming off one-third of the roots and leaves. Celery seed may be planted out of doors north of the Ohio in April and treated as outlined above. Given sufficient water, celery can be grown on any good garden soil and one ounce of seed gives above 6,000 plantes. plants.

Golden Self-Blanching. The best self-blanching sort. It acquires a handsome golden color without having to be hilled up, which makes it a valuable market sort.

White Plume. A good self-blanching sort, good for fall use, but does not keep well.

Giant Golden Heart. This variety attains a large size, but still remains crisp and tender. It is a fine keeper and is the favorite on the Chicago market.

Kalamazoo. This is the variety used by the celebrated celery growers of Kalamazoo, Mich., and is of great merit.

Perfection Heartwell. A finely flavored, good keeping sort, hardy and solid. Crawford's Half Dwarf. The favorite variety in eastern markets; a good keeper of vigorous growth.

Pink Plume. Similar to White Plume, but having stalks suffused with pink.

Giant Pascal. This is the best keeper of all of the late sorts; very solid and crisp. This variety is unsur-passed for market garden.

Winter Queen. It has the strong, robust growth of the Giant Pascal, but the plants, being only of medium height, are of better length for bunching for market as well as more desirable for serving on the table. Evan's Triumph. One of the best late sorts.

Boston Market. For many years one of the most popular sorts in the markets of Boston.

### GERMAN CELERY OR CELERIAC

Large Smooth Prague. Has a large smooth root, and is the finest of all celeriac. Apple Shaped. Not as smooth as the above but of good form. Turnip Rooted. This is the ordinary and well known variety. and the second s



### CABBAGE

Cabbage grows successfully on a wide variety of soils and experience points to liming, deen plowing and heavy

Debage grows successfully on a wide variety of soils and experience points to liming, deep plowing and heavy many many successful practices.
Tabbage plants when properly hardened by gradually being brought to a low temperature and the quantity of a them diminished will stand any frost and some considerable freezing. Yes, a cabbage plant raised at a plant in them diminished will stand any frost and some considerable freezing. Yes, a cabbage plant raised at a plant without of water will be killed by even a light frost. Cabbage can be grown by planting the seed bed, which is not richer than the field to which the plants go and transplant, if possible on a plant without of a much as possible the deadly freeze and thaw. For early cabbage north of the Ohio, sow seed or of doors as soon as the soil can be worked in spring, covering the seed one-third inch deep. All vegetable plants are best when the bed is frequently plants, but a solut of doors as soon as the soil can be worked in spring, covering the seed one-third inch deep. All vegetable plants are best when the to the first leaf. At this time the plant is fould have four to fix pairs of leaves and be four to six inches high. Set small varieties to be worked by hand as close as eighteen inches each way, while large late varieties, hores with out check, so let as much soil adhere to the roots of the plant in transplant is four to six inches high. Set small varieties to be worked by hand as close as eighteen inches each way, while large late varieties, hores will grow early cabbage begins frequently in sixty days from transplanting. One ounce of seed will readily give the areal set when the hearts are soild. Germination occurs in four to ten days, and cutting or unsate and be four to as set as a done dourth pound is sufficient for an acre.
The home use, plant for a succession and study the market's demands; don't grow big sauerkraut factory heads are early as to begin bursting, push the head to one side far enough to 'tear of the crois one eside.</p



Early Jersey Wakefield Cabbage. The most popu-lar of the pointed head varieties. Exceedingly early, a good cropper, heads of good size, solid and uniform.

form. Early Spring Cabbage. The earliest flat head, nearly as early as Jersey Wakefield. Yieldsmorethan the early pointed heads. Solid, uniform and finely grained heads. Early Winningstadt. An early pointed head variety of excellent quality, not as early as the Wakefield but larger.

larger. Henderson's Early Sum-mer. A standard summer variety. Heads large and solid.

Solid. Fottler's Early Bruns-wick. An early fall variety, well known and popular. All Head Early. One of the finest early flat-head cabbages

the finest early flat-head cabbages. Early York. A standard pointed head variety, sec-ond early.

and early. Early Dwarf Flat Dutch. An early cabbage of good size. Heads are flat and very solid. Henderson's Succession.

A good summer cabbage; also makes a good cabbage to succeed itself.

EARLY JERSEY WAKEFIELD

All Seasons. A fine variety for any season, a good shape and size. Volga. One of the earliest main crop cabbages of superior quality. Very desirable where a large, uniformly ad head with short stem and compact growth is wanted. Early Drumhead. This popular variety follows the Faultiess in heading and is one of the most valuable variround

Early Drumhead. This popular variety follows the Faultless in heading and is one of the most valuable varieties grown. Louisville Drumhead. This fine cabbage is very popular with the kraut makers. It is a medium late variety. Faultless Cabbage. The favorite second early cabbage. The product of this seed outsells any other second early cabbage. It can be marketed in the early summer, during midsummer, in the fall and early winter, making it the best all purpose variety. Glory of Enkhulzen. This is an excellent mid-summer variety. It comes in about a week earlier than All Sea-sons, makes a nice large head, has few outer leaves and can be planted close. Our tests show it to be worthy of a place among the new varieties of merit and we can recommend it as a good addition to the list. Copenhagen Market. A new early variety, popular with market gardeners. It is one of the finest early round-headed cabbage in cultivation. It is desirable on account of the remarkable characteristic of maturing the heada all at the same time, enabling the grower to gather his crop with less expense and permitting the cleaning of the land at the first cutting.

all at the same time, ena land at the first cutting.

The kitchen gardener or critical market man who wants a quick and even maturing cabbage that resembles Danish Ball Head will find Glory of Enkhuizen and Copenhagen Market unquestionably the best.

### CABBAGE



PREMIUM FLAT DUTCH

Cabbage Seed is one of the things that requires care in the selection. Price should be held in minor importance compared with quality. The best is always the Cheapest.

The Lupton. The Lupton Cabbage is the result of an effort to combine in one variety the best qualities of the secondearly and the late sorts. It is a little earlier than any one of the various strains of Flat Dutch and Drumhead.

Premium Flat Dutch. This variety of late cabbage is a standard in all sections for winter use. It makes a large solid head which keeps long without bursting, and is adapted to a more varied climate than probably any other variety we grow.

Improved American Savoy. Closely approaching the cauliflower in delicacy and delicious flavor. The best of all the Savoys for general market or home use. It has a short stump, grows to a large size, is compact and solid, and is a sure header. Mammoth Rock Red. The largest heading of any red sort. Heads are hard, of deep red color, quality

excellent.

Red Drumhead. The standard pickling variety. A good keeper. **Prairie Winter Cabbage**. This new cabbage is a direct cross of the **Luxemberg** and the **Holland** and combines the good points of both. It has the shorter stem and more lasting color of the Luxemberg with the rounder head of the Holland. The combination gives a cabbage that is superior to either.

Large Late Drumhead. A late variety of large size. Sure Head. A fine variety for main crop. A good shipper and sure header. Stonemason Drumhead. A late large heading variety; but not as fine grained as others. Marblehead Mammoth. A large late variety of fairly good quality.

Danish Ballhead Cabbage. For a winter cab-bage for early spring sales some gardeners consider this variety excellent. It has been selected and perfected for more than fifty years by the Danish gardeners, who prize it so highly that they grow it almost exclusively for winter cabbage, and annually export large quantities of it. It is hard head-ing, and long keeping cabbage. Heads round as a ball, solid, fine grained, has few outer leaves, tender, crisp and of unexcelled flavor.

Holland. The favorite winter cabbage with market gardeners. It is as hard as a rock, and a small head will weigh as much as a large head of any other variety. The leaves lap over and make a head in which there is no waste.



HOLLAND WINTER CABBAGE

### SWEET CORN

Plant corn every two weeks for a continuous supply and north of the Ohio from late April to late July. Plant corn in three or four foot drills, dropping a grain every eight to sixteen inches, or plant in hills three or four feet each way, giving six grains to the hill and later thinning to three stalks. Corn should be planted about one inch deep, planted deeper in sand than in heavy clay; planted deeper later in the year when the soil is warm; dwart varieties closer together than the larger ones and a given quantity of seed of a small grained variety plants a larger area than does a like quantity of the large grained. One quart generally plants two hun-dred fifty hills and one peck is necessary to the acre. Sixty-five days is a short time to maturity. Plow deep-ly for corn, cultivate shallow and pick corn before it is too old. If the goodness of new corn tempts a too early planting, do not blame the resulting failure on your seedsman. Mammoth White Cory. The ears are twelve rowed, white cobbed, and no other varlety has proved earller. White Cob Cory. This is an improvement over the Early Cory, as the Early Cory and of excellent quality. Chicago Market or Ballard. This is the largest and best early corn in existence, twelve rowed, white cobbed and of exceedingly fine quality.

in exis

in existence, twelve rowed, white cobbed and of exceedingly fine quality. Premo Sweet Corn. A "sixty-day" sweet corn, and is thus described by the originators: "It not only combines all the merits of the lead-ing early varieties, but it is also really superior to them all in size, quality and yield. Premo can be planted fully as early as the Adams for the young plants withstand slight frosts." Extra Early Adams. This is an extra early field variety, but is much used as an early market variety, being sweet and juicy. Early Minnesota. One of the standard early sorts. Ready for market two weeks later than Cory or Chicago Market. Perry's Hybrid. An early variety of splendid quality. Kernels tinged with pink when ripe, with white cob. New Champlon. This corn is unsurpassed for market use, owing to its large size and fine appearance. It is medium early. Golden Bantam. A very early sweet corn with golden yellow grain, very tender and of excellent quality. Stowell's Evergreen. A standard variety for main crop; well known and popular. Moore's Early Concord. A well known, early variety of large size, twelve rowed and of excellent quality. This makes a fine market cord.

corn.

Kendall's Early Giant. A valuable early sweet corn. Kendall's Early Giant. A valuable early sweet corn. Crosby's Early. An early corn of large size and choice quality. It has long been a standard variety. Metropolitan. A new early sort, only a few days later than Cory. Country Gentleman. There is no sweet corn that compares with the Country Gentleman for sweetness. Black MexIcan. This corn, when in condition for the table, cooks remarkably white; but the ripe grain is black or bluish-black. Old Colony. This variety is two weeks earlier than the Evergreen, and almost as large. Early Evergreen. The ears of this new corn grow 8 inches long, are mostive 14 to 18 rows.

Early Evergreen. The ears of this new corn grow 8 inches long, are mostly 14 to 18 rows. Zigzag Evergreen. This fine new strain possesses distinct charac-

teristics.

Mammoth Sugar. A large late variety having ears of mammoth size, 14 to 20 rows.

### LEONARD'S NARROW GRAIN EVERGREEN

A new type of Evergreen bred up by S. F. Leonard after years of selecting. It is as large as Stowell's, more uniform in shape of ear, has longer, narrower grains, more sugar and less starch. The best corn for canning or marketing.

### CUCUMBER

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### **CORN SALAD**

Fetticus, or Lamb's Lettuce. This small salad is used during the winter and spring months as a substitute for lettuce, and is also cooked and used like spinach. In warm weather the plants will mature in four to six weeks. Sow the seed in shallow drills about one foot apart. If the soil is dry ft should be firmly pressed over the seed in order to secure prompt germination. On the approach of severe cold weather, cover with straw or coarse litter. Like most salad plants, greatly improved if sown on very rich soil; indeed, the ground can scarcely be made too rich for them.

CKEDS True Water Cress can be easily grown by sowing the seed broadcast on garden soil and keeping the soil very wet till the plants are big enough to transplant to shallow indenta-tions about five inches deep here and there along the sides of a clean flowing stream. There it will continue to spread by the lengthening of its roots, also by reseeding and requires on further care. The crop can be grown to maturity in we garden soil, or the seed can be sown directly to the mud along the stream, but with lesser measures of success. April or September is a good time to plant these minute seeds, and this aquatic prefers to stand with its roots and most of its stems submerged. Cutting can begin in about sixty days, and a little later frequent cutting, using a sharp knife, will stimulate plant growth. Curled or Pepper Grass, a pungent, quick-growing plant any garden soil as soon as the ground can be worked. Plant four inches.

#### COLLARDS

Georgia, Southern or Creole. A variety of cabbage known in different sections as "Cole," "Colewort," or simply "greens." It is extensively used in the south, where it con-tinues in luxuriant growth all winter.

### **CHERVIL**



A hardy annual, worthy of more general use for flavoring and garnishing. Sow in early spring in rich, well prepared soil, and when plants are well established transplant to about one

foot apart. Curled. Greatly superior to the old, plain variety, being earlier, more handsome, and having fully as fine perfume and flavor.

### CHICORY

(FRENCH ENDIVE) Witloof Chicory The principal merit of this variety consists in the width of its leaves and the large size of their ribs. When blanched, it forms the vegetable which the Belgians call Withoof. When properly grown and blanched it resembles a head of Cos Lettuce. Large-rooted, or Coffee. Our stock is the improved type, with very much larger, smoother, whiter and proportionately shorter roots than the old kind. The dried and prepared roots are used quite extensively as a substitute or adulterant for coffee.

## **CARDOON**

(CARDO)

Smooth Solid Cardoon. Grown from the mild ribs of the leaves which are blanched and used in the same manner as celery. The main root is also used and when cooked in a proper way, is excellent. Thorough blanching is necessary in order to bring out the delicacy of flavor possessed by the Cardoon.



EGG PLANT

### DANDELION

Cuitivated or French Common. This is considered the best by many and is not at all the same as our wild dandelion, being greatly improved by careful selection.

Improved Thick Leaved. One of the earliest and best greens in cultivation.

### EGG PLANT

Treat the egg plant like a tender tomato that required even a longer period to mature. After cabbage plants are out of the hot-bed or greenhouse, which is April north of the Ohlo, sow egg plant, keeping even the night temperature above seventy degrees. One ounce of seed gives two thousand plants, and one pound plants an acre. Transplant later to pots or to a three or four inch stand, and when corn is shoe high, put egg plant outside on rich well drained land. Set the plants two feet apart in four feet rows, shading or watering the plants if it's sunny or dry. Use any good stomach poison for the potato bug when he attacks the egg plant. Improved New York Purple Spineless. Very large and smooth, fine dark color. Ours is the spineless plant, most preferred by our market gardeners, both east and west.

WITLOOF CHICORY

both east and west.

Black Pekin. A fine variety, bearing large, round, deep, purple fruits, fine grained, and of superior quality.

Early Long Purple. Early, hardy and productive; excellent for the table.

### ENDIVE

Endive, or winter lettuce, used as a salad, as greens or garnishing, is usually planted one-fourth inch deep in a seed bed in mid-summer, and when convenient after a month transplanted to stand one foot apart in eighteen inch rows. When almost grown and about two weeks before ready to use, it is blanched by tying the leaves together with soft cord, or the blanching is by turning a flower pot or tile over each plant, or by blanching with earth, like celery. The blanching removes the green plant's acrid taste. The plant may be, but seldom is, used as an early spring crop. Three to five pounds of seed plants an acre.

Green Curled. Beautifully curled, tender and crisp. Moss Curled. More finely curled, and a heavier and more dense plant than Green Curled. White Curled. Very tender when cut young; blanches readily. Broad-Leaved Batavian. (Escarrole.) This variety is chiefly used in soups and stews; requires to be tied up in hlanching

### AROMATIC, MEDICINAL AND POT HERBS

Most of the varieties thrive best on rich sandy soil, which should be carefully prepared and well cultivated, as the young plants are for the most part delicate and easily choked out by weeds. Sow as early as the ground can be made ready, in drills sixteen to eighteen inches apart, taking pains that the soil is fine and pressed firmly over the seed; or they may be planted as a second crop, the seeds sown in beds in April, and the plants set out in June. Most of them should be cut when in bloom, wilted in the sun and thoroughly dried in the shade.

Annis ...... Horehound Horehound ..... Sweet Marjoram ..... Caraway ..... Coriander

Saffron ..... Savory, Summer..... Thyme .....

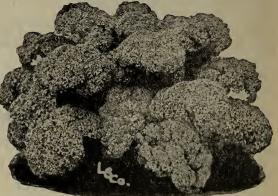
### KALE OR BORECOLE

In Virginia, kale planted in late August has some of its plants thinned out and sent to market within sixty days and the cutting then continues until the field is clean in April. Further north, kale is treated like the cabbage; that is, planted early in spring in hot beds or out of doors, and it is used in the fall when light frosts have improved it. Kale is sown in two to three foot drills and thinned to six to twenty-four inches, according, to varieties. One ounce sows generously one hundred yards and four pounds plants an acre. Siberian Kale, or Winter Sprouts. This is also called German Greens and is sometimes sold for Dwarf Green Curled Kale, but it is not as curly as the Dwarf Curled Kale and is different from it in color. The leaves are smooth in the center, having a fringed edge. Color has a bluish tint, not the deep green of the Dwarf Curled Kale.

Kale. Dwarf Green

Kale. Dwarf Green Moss Curled. Leaves yellowish green, very compact and beautifully curled; sow in September for winter and early spring use. Dwarf Curled Scotch. Leaves bright green, curled, very tender and fine flavored; an excellent sort for private

gardens



DWARF CURLED SCOTCH KALE



### KOHL-RABI

This relative of the cabbage, that looks like a turnip that grew above the ground, can be treated very much as either cabbage or turnips. One ounce sows one hundred yards and four pounds plants the acre. Sow in eighteen to twenty-four inch rows, thin to four inches apart and use for the table when small. Like the turnip, we cannot expect good koll-rabi in the summer heat, but a planting made about August first north of the Ohio will give a crop for winter storage. Do not overlook the value of this plant as a stock crop food.

Earliest Erfurt. A white tender variety, with a smooth root and very short top; the best variety for outdoor culture.

Early Short Leaved White Vienna. The finest for market. Flesh white and tender.

Early Purple Vienna. Bluish purple; similar to the above, except in color. Large Green. Hardy, quite late, and used for feeding stock. Bulbs large, weighing 8 to 10 pounds, whitish green in color; leaves large and numerous.

### LEEK

This mild member of the onion family is used in soups and salads. Sow one ounce to one hundred feet of row or four or five pounds to the acre one-half inch deep, as early as the soil can be worked in spring. Thin the plants to a stand of four to six inches in the twelve to eighteen inch rows. It is advisable to throw earth to the plant to blanch it, very much as celery is blocked. is blanched.

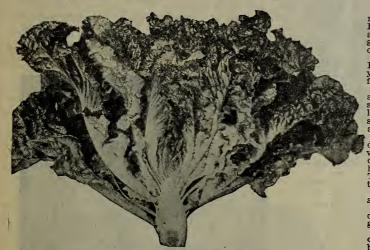
Large American Flag. Large, hardy and of excellent quality." Giant Carentan. The favorite market variety, large, thick stem, of mild flavor and attractive appearance.

Musselburgh. Grows to a very la like a fan; hardy, of excellent quality. large size, with broad leaves, spreading

London Flag. An old and popular sort; one of the hardiest and best for winter use.

### LETTUCE

As lettuce will stand considerable freezing, it may be seeded or transplanted out-of-doors as soon as the soil can be worked in spring. For a succession, replant every three weeks till within sixty days of freezing weather. The soil cannot be made too rich and this crop must be grown quickly and unchecked to be of superior quality. North of the Ohio lettuce is frequently started under glass like cabbage in hot beds; in February transplanted to cold frames and hardened to be set out-of-doors in early April. In more southern or milder winter climates, lettuce may be sown in autumn, protected with sash or coarse litter and in late winter trans-planted; or thinned and matured where planted. When the crop is matured under glass it requires much vent-ilation and little heat, and beware of too much water in cloudy weather. In the summer's heat canvas or a slatted half shade and plenty of water is of value. One ounce of seed gives two thousand plants and three pounds plants an acre. In the seed bed drop twenty-five seed to the foot, and gently rake it in; failure may result from too deep a covering. Mature lettuce in twelve to eighteen inch rows, giving the loose leaf varieties three to eight inches in the row and head lettuce six to twelve inches. Black Seeded Simpson. This is the most popular early sort on the market. Forms large, loose heads Leaves thin and exceedingly tender, of light green to golden yellow. Best sort for forcing or outdoor early planting. Early Curled Simpson White Seed. Forms a close, compact mass of curly yellowish green leaves. Good for cold frames or early planting for outdoors. Grand Rapids Forcing, Preferred by a great many to the Black Seeded Simpson, on account of being a tougher leaved lettuce. This makes it a fine sort for shipping, as it does not break so easily and stands longer without wilting. Paris White Cos. The Cos lettuce differs entirely in shape from the other varieties. the head being elongated and of conical form, eight or nine inches in height, and five or six inches in diameter. To be had in perfection it requires to be tied up to insure blanching. Early Curled Silesia. A very tender sort, with fine curled leaves. The Leave of Curled Silesia and growers. The Head. The leaves are very large, rimped, bright green tinged with thorwinsh-red and are exceedingly tender, crisp and sweet, forming a large, loose head. ; quality excellent.



BLACK SEEDED SIMPSON

head Hanson. Heads large, hearts quickly and stands the summer well; quality excellent. New York. The large white heads resemble cabbage in their solidity, and frequently weigh two and three pounds each. The quality is superb, being crisp, rich and tender. It withstands the heat well, making a fine variety for all seasons.

The Deacon. A magnificent butter head lettuce. It stands the hot weather without becoming bitter or running to seed, and bears fine, large heads of superb quality. Light green outside, and within a beautiful cream yellow of delicious rich, buttery flavor. Highly recommended for home or market use.

Early Tennis Ball, White Seed. A good early sort, and used largely by eastern gardeners for forcing. Early Tennis Ball, Black Seed. A good lettuce for early use. The heads are small, but very crisp and solid.

California Cream Butter. A grand, good butter lettuce. The heads are of good size, round and solid; outside, medium green within, the leaves are a rich cream yellow color. Rich and buttery in taste. The Rich and

All Seasons. One of the best all head lettuces, standing the hot sun better than any other sort. Slow to seed.

May King. Plant this lettuce for the first early head lettuce.



HANSON

It is equally good for outdoor planting or forcing. The outer leaves have a slightly brownish tinge, while the heart is a beauti-ful yellow, very crisp and tender. Big Boston. This variety is identical in color, shape and general appearance with the famous Boston Market Lettuce, but is double the size. It is about one week later in maturing, but its solidity and greater size of head will make it a most valuable sort. A most desirable variety, either for forcing in cold frames or open ground planting. St. Louis Head. The most popular and

St. Louis Head. The most popular and satisfactory head lettuce with market gar-deners. It forms a fine head, is tender and crisp, and is very slow to run to seed. Outer leaves are light green, and the inner ones are bright, creamy yellow, of a very fine flavor. Altogether, we recommend it as be-ing the best head lettuce for general use.

Hubbard Market. A large heading variety, bod for either forcing or sowing in open good for ground.

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**BIG BOSTON** 

### **MUSK MELON**

Musk melen, water melon, cucumbers, gourds and squash are known as cucurbits. For musk melon follow our cultural directions for cucumber except that where a robust growing variety of musk melon is grown, a space of as much as six by six feet is sometimes required between hills. One ounce of seed plants fifty hills, and three pounds plants an acre. The crop or the last planting for a succession should be in by June, north of the Ohio. While not necessary, it is advisable to pinch off the branches of the musk melon if a quicker matured or a larger or a better fruit is required. Pick the melon when it parts from the stem without diffi-culty and store a few days in a cool room.



Jenny Lind. Vines rather small but vigorous and produc-tive. Fruits small, somewhat flattened, deeply ribbed and well netted. Flesh green and exceedingly sweet. Skillman's Netted. An excellent early melon with fine,

Skillman's Netted. An excellent early melon with fine, tender flesh. Netted Gem. The best early melon known. Shipped to every market of note in great quantities every year. Medium size, but of excellent flavor. Early Hackensack. The fruits are nearly two weeks earlier than Hackensack, medium to large sized, nearly round or somewhat flattened, evenly and deeply ribbed and with very coarse netting. The skin is green, slightly tinged with yellow as the fruits mature. The flesh is green, a little coarse but juicy and sweet. Hackensack, or Turk Cap. A very large, green fleshed melon. The vines are hardy, vigorous and productive. The fruits are nearly round, usually somewhat flattened; ribs large and of irregular width, densely covered with coarse netting.

netting.

Rocky Ford. This has become one of the most popular of small or crate melons and is shipped in large quanti-ties from Colorado and Arizona. The vines are vigorous and productive. The fruits are oval, slightly ribbed, densely covered with fine netting. Flesh green, very sweet and highly flavored.

Chicago Market. This we consider the best Nutmeg for earliness of maturity, large and uniform size, thickly netted skin, small seed cavity, deep green flesh, juicy delicious flavor and freedom from rot. A favorite with all who prefer a green flesh sort.



EARLY HACKENSACK

Baltimore, or Acme. The fruits are medium sized, oval or long oval, slightly pointed at stem end, slightly ribbed, and are covered when ripe with coarse netting. The flesh is thick, green, well flavored and sweet. This variety is a very productive, sure cropper of good quality.

The Osage. Is of medium size, oval in form, dark green in color, somewhat netted and slightly ribbed. The flesh is extremely and uniformly thick, of firm texture, rich salmon in color; highly flav-ored and delicious to the rind. Cavity very small. It is a remark-able keeper and a good shipping melon.



#### THE OSAGE MUSK MELON

Paul Rose. A yellow fleshed sort of suitable size for a crate melon and of excellent quality. Vines vigorous and productive. Fruits oval, slightly ribbed and densely netted.

Emerald Gem. A very early, yellow fleshed melon of small to medium size. One of the very best for the home garden.  $\gamma$ 

Burrel Gem. or Rocky Ford. This is an orange fleshed netted Gem

or Rocky Ford. Tlp Top Musk Melon. The illustration shows a specimen of our strain of this popular melon. This very productive melon is of medium to large size, nearly round, slightly ribbed and fairly well covered with shallow netting. The flesh is deep yellow in color. The universal testimony of every one using Tip Top is that every fruit produced, whether big or little, early or late in the season, is a good one-sweet, juicy, finest flavor, firm, but not hard-fleshed, eatable to the very coating.



TIP TOP MUSK MELON

### WATER MELON

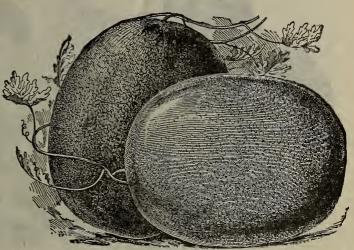
For water melon, follow our cultural directions for cucumbers, except that it is necessary to give the water melon a space of eight to ten feet between hills, and thin the plants to two to the hill. One ounce plants twenty-five hills and three pounds of seed plants an acre.

Sweetheart Water Melon. This melon is early, large, handsome, heavy and productive. The shape is oval and the color mottled light to a very light green. Flesh bright red, solid, but tender and verv sweet.

Florida Favorite. A very large, long melon mottled dark green with stripes of lighter shade. Rind thin but firm; flesh very bright, deep red, very sweet, tender and excellent.

Cole's Early. Very hardy, a sure cropper and extremely delicate in texture of flesh, which is of dark red color; rind is thin and extremely brittle, hence not desirable for shipping purposes, but possessing all the other most desirable features. We highly recommend it for home use.

Kleckley Sweets. A splendid sort. Vine vigorous and productive. Fruit of medium size; oval, dark, mottled green in two shades, forming indistinct stripes.



#### SWEETHEART WATER MELON

Gypsy, or Georgia Rattlesnake. One of the largest varieties and stands shipment long dis-tances. Fruit cylindrical, square at the ends, smooth, distinctly striped and mottled light and dark green. Flesh bright scarlet and very dark green. sweet.

sweet. Ice Cream. Medium sized with very sweet, scarlet flesh. A good variety for main crop. Kolb's Gem. Vines of medium size, but re-markably vigorous and healthy. Tom Watson. Originated near Augusta, Ga., a few years ago; very prolific—six carloads on ten acres often made; shape long; color dark, deep green: no stripes.

ten acres oiten made; snape long; color dark, deep green; no stripes. Vick's Early, Peerless, Triumph, Dark Icing, Jumbo, Cuban Queen, McIver's Sugar, Dixie, Duke Jones, Red Seed Citron, Light Icing, Bradford, Phinney's Early, Green Seed Citron, Mountain Sweet, Halbert Honey, Success, Iceberg.

#### MUSHROOM SPAWN

For the money invested, no more profitable crop. Once started, it is easy to continue. The supply never equals the demand, so that a market is easily secured. English. 1 lb. Bricks,

## **MUSTARD**

Mustard is grown for its seed, which is used for flavoring or medicinal purposes or grown for its leaf, which is used in salad or cooked like spinach. Sow mustard as soon as the soil can be worked in spring and every three weeks for a succession, or in the south it may be sown in the fall for early spring greens. Cover the seed lightly in twelve to eighteen inch drills. Cut the leaf when not over four inches high and expect this cutting in fifty days from the seeding.

Giant Southern Curled. The favorite of the south.

Fordhook Fancy, or Ostrich Plume. Same as above. Chinese or Large Leaved Mustard. The large leaves which often measure 14 inches, are ready for use in about six weeks after sowing. Plants will continue to yield until frosty weather. Leaves are eaten boiled, like spinach.

**KLECKLEY SWEETS** 

Bloomsdale, Large Leaved. Same as the Chinese Mustard described above.

White. Best for general use. Brown.1 Stronger than above.

### NASTURTIUM

Tall Mixed Garden. Grown not only for ornament but the beautiful orange colored flowers and foliage are used for garnishing and the young leaves or shoots are excellent for salads. The green seed pods are greatly esteemed by many for use in mixed pickles. Dwarf Mixed Garden. Same as above, except that it grows in



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SPECIAL GLOBE ONIONS



RED GLOBE

WHITE GLOBE

**YELLOW GLOBE** 

Our three Globes bring more money to the onion grower and sell quicker than any other varieties. Our Yellow Globe is the Standard Yellow, our Red Globe is the Standard Red, and our White Globe is the Standard White.

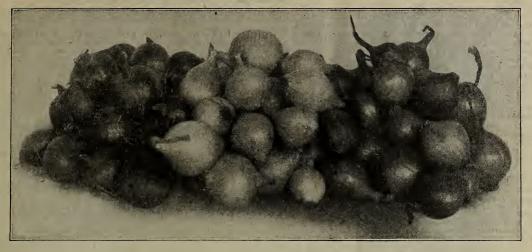
White.
 These stocks are quite superior to the ordinary run of Southport Globes.
 Red Globe. A fine large globe-shaped onion, of mild flavor. It is a good keeper, excellent for main crop.
 White Globe. A very handsome onion, of splendid quality. Keeps well. It has a good, strong flavor. The best sort for early green onions from seed.
 Yellow Globe. This is a large, handsome yellow variety. Shape, perfectly globular; quality fine. A splendid

keeper.

### **ONION SEED—Standard Sorts**

<section-header>ONION SEED—Standard Sorts and the second se

#### **ONION SETS**



RED

WHITE

YELLOW

15

Onion Sets. Should be planted as early in the spring as convenient, to obtain early green onions, but they may be set at any time up to June 1st. Set in rows a foot apart and three to four inches between them in the crop for an early market. They are ready for use as soon as the bulbs begin to be of fair size. Those not used in green condition will ripen early in July and make nice Onions. Potato and top onions are grown from bulbs only, growing in clusters. These clusters are separated and the smaller ones kept for seed. There is no crop they have the the the first load or so of green onions in the market. Onion Sets will make this crop for you. Why not grasp the opportunity offered. Our Sets are carefully grown and choice; they will give the largest returns for the money invested if the product is sold, or excellent green onions for home use at a time when a fresh green vegetable is needed. The varieties of Onion Sets are:
Ref Bottom Sets White Bottom Sets Yellow Multipliers Yellow Bottom Sets Shallots

### **OKRA OR GUMBO**

The pods of this plant are used in a great number of ways throughout the Southern States, and the plant should be more frequently grown in the north. Plant at corn planting time in rich land, sowing the seed thickly in two or three foot drills, and thinning to an eight to twelve inch stand, according to varieties. A generous planting is two ounces to one hundred feet and ten pounds to the acre. Okra seed may be planted six seed to the hill, two to three feet apart and thinned to two plants to the hill

planted six seed to the hill, two to three feet apart and thinned to two plants to the hill. Dwarf Prolific or Density. A fine new variety, much dwarfer than the ordinary dwarf okra, and much more productive. Short, thick pods. White Velvet Okra. The pods are perfectly round, smooth and of an attractive white velvet appearance; of superior flavor and tenderness. Tall Green. A favorite at the south; called also Perkins Mammoth Long Pod.

### PARSNIP

Plant one-year-old parsnip seed as early as the soil can be worked in spring and do not cover this slow germinating seed deeper than one-fourth inch. Use eighteen to twenty-four inch rows, thinning the plants to a four inch stand. One-half ounce of seed sows one hundred feet and three to five pounds plants an acre. This crop requires the entire season to mature, and as frost improves the roots, they may be left, in the ground all winter. Both as to quantities and its feeding values, the parsnip is a valuable stock feed. Hollow Crown. Roots comparatively short, with a very smooth, clean skin. The variety is easily distinguished by the leaves arising from a depression on the top or crown of the root. Guernsey. The best sort for heavy, black soils. Where the soil is exceedingly rich this is the variety needed, as it makes a fine shaped root which does not grow too long.

OKRA



CHAMPION MOSS CURLED

### PARSLEY

Parsley used for garnishing and for seasoning can be planted as soon as the soil can be worked in spring. Cover the slow germinating seed one-fourth inch deep in twelve to eighteen inch nows, later thinning to a six inch stand. One-fourth ounce sows one hundred feet and three to five pounds plants an acre. Double Curied. The standard sort for outdoor culture, also highly prized by market gardeners for the greenhouse. Champion Moss Curied. A very fine curied variety. One of the handsomest for garnishing purposes. The exceedingly curied leaves make it desirable. Fern Leaved. This sort has a peculiar, fern shaped leaf. It is not so desirable as the more curied sorts. Hamburg Rooted. The standard rooted sort. The leaves are used for soup, greens, and the roots, when sliced, are much esteemed.



### PEAS

As to a superiority between smooth and wrinkled peas it is all a matter of individual taste, but the preponder-ance of taste is in favor of the wrinkled varieties.

ALL VARIETIES OF PEAS, REGARDLESS OF HEIGHT, MAY BE GROWN SUCCESSFULLY WITHOUT A TRELLIS OR SUPPORT. As peas vary in height from six inches to six feet, it follows that the distances in the row and apart in the row should vary. Dwarf or half dwarf varieties are best planted in double or companion rows six inches apart to support and shade each other in their growth; then leave a space of eighteen to thirty inches, according to height of the variety, and repeat the double row. The tall varieties that may be given sup-port are planted in single rows, the space between the rows somewhat less than the height of the variety. Drop ten to twenty dwarf peas to the double row or six to ten tall peas to the foot of row, using one quart to one hun-dred feet and three bushels to the acre.

Plant all peas at least five inches deep in soil that has been deeply plowed. This deep planting is the grow-er's attempt to give the peas the cool, damp climate they prefer. Lightly harrow or rake the soil when the peas should be breaking through, and continue to cultivate till the vine stops the work.

All peas stand some frost and may be planted as soon as the soil may be worked in spring. Peas should be planted frequently for a succession all north of the Ohio. The early varieties are planted in August for a late autumn crop.

For quality's sake, pick peas before they crowd the pod and pick all pods as rapidly as produced to some-what extend the plants' bearing. As all varieties of peas lose their characteristics when left without that selection given by expert seedsmen, it is necessary to go to a reliable source for seed peas. Alaska. Well known and extensively used, especially by Canners. Very early, and when carefully grown, uni-form in ripening. Vine is strong and vigorous, 2 to 2½ feet high, of a peculiar light green color; pods 2½ to 2¾ inches long, straight and blunt at the end, and light in color. First and Best. Early, productive and hardy, with a strong, vigorous vine, which is light in color and uni-form in growth, 2½ to 3 feet in height and bearing straight pods 2½ to 2¾ inches long, round, light in col-or, and blunt at the ends. American Wonder. Vigorous, productive vines, with a luxuriant foliage, and producing the leaves on one side for private garden use. Pods are light colored, straight, round, about 2½ inches long, and blunt at the end. Mott's Excelsior, Resembling Gems in habit, but more dwarf and uniform in growth; height, 12 to 17 inches, with rather light foliage. William Hurst. Resembling Gems in habit, but more straggling and uneven in growth. Height, 16 to 18 inches, foliage dark. Vigorous and pro-ductive, bearing in profusion, long, curved pods, medium green in color, about 3 inches in length. Gems. Strong and vigorous in growth, producing vines from 18 to 24 inches in height, dark foliage, bearing pods singly on both sides of the stalk, beginning

ductive, bearing in profusion, long, curved pods, medium green in color, about 3 inches in length. Gens. Strong and vigorous in growth, producing vines from 18 to 24 inches in height, dark foliage, bearing pods singly on both sides of the stalk, beginning near the ground. Pods are almost straight, 2½ to 2¾ inches long, light in color and blunt at the ends. Advancer. Vines upright and vigorous in growth, hardy and productive. Height, 30 inches, foliage dark green. Pods 2½ to 2½ inches long, round, dark colored and blunt. Sutton's Excelsior. Similar in habit of growth to Nott's Excelsior, but bearing very large, broad, pods, well filled with large peas. Very tender, and of the most delicious flavor. Vines about 18 to 20 inches high, medium light in color with pods 3¼ to 3½ inches long, light in color and blunt at the ends. Sutton's Dward Defiance. The vines, vigorous and hardy, about 2 feet in height, with coarse, dark green in color. Fit for picking 61 days from planting. Seed large, green, wrinkled. Abundance. Vigorous in growth and pro-ductive, bearing pods are dark green and of excellent qual-ity. Very similar in every respect to Hors-ford's Market Garden, except that it is a few days later, being fit for picking 71 days from planting. Pods are dark green and blunt. Seed green, wrinkled and medium in size. Telephone. Vines and leaves large and coarse. Foliage light green in color. Height, 40 to 50 inches, pods, 4½ inches long, broad pointed, medium green in color. Height, 40 to 50 inches, pods, 4½ inches long, broad pointed, medium green in color. Height, 40 to 50 inches, pods, 4½ inches long, broad pointed, medium green in color. Height, 40 to 50 inches, pods, 4½ inches long, broad pointed, medium green in color. Height, 40 to 50 inches, pods, 4½ inches long, broad pointed, medium green in color. Height, 40 to 50 inches, pods, 4½ inches long, broad pointed, medium green in color. Height, 40 to 50 inches, pods, 4½ inches long, broad pointed, medium green in color. Height, 40 to 50 inches, pods, 4½ inches l

wrinkled.

wrinkled. Everbearing. Vigorous and branching in habit of growth. Height, 2½ to 3 feet. Pods, 2¾ to 3 inches long. Broad, light colored and blunt. Fit to pick 70 days from planting. Seed green, wrinkled, large in size. Horsford's Market Garden. Strongly re-sembling Premium Gem in habit of growth, but about one-third taller, vines growing 26 to 30 inches high.

30 inches high. Early May Improved. This pea is one of the best of the "White" earlies and is supe-rior to First and Best or Prolific Early Mar-ket. Vines are strong growing for this class of pea, about 30 inches in height, foliage pale green. Pods are pale colored, straight, round and blunt. Average 2¼ inches in length. Fit for use 56 days from planting. Seed small to medium sized, white and smooth. Dwarf Telephone. Vines 18 to 20 inches

HORSFORD'S MARKET GARDEN it has a tendency to sport. Vines 20 inches. Foliage, dark green. Pods 3½ inches long, straight, broad, pointed, gray green in color. Fit for table use 56 days from planting. Seed very large, green, wrinkled.

#### PEAS—Continued

Shropshire Hero. Strong, vigorous vines, 42 inches in height. Pods 3 to 3<sup>1</sup>/<sub>2</sub> inches long, blunt, light green in color. Fit for table use, 68 to 73 days from planting. Seed large, green, wrinkled.

Potas 3 to 342 inches long, blunt, hent green in color, green, winkled.
Yorkshire Hero. Hardy, productive, and upright in growth, bearing near the top of the stalk, broad pointed pods with peas of a good quality. Foliage dark green, 21 to 28 inches in height. Pods, 242 to 3 inches long, blunt, light green in color.
Gradus. A large, wrinkled, early pea, with a pod nearly as arge as Telephone, filled with large peas, tender and of good quality and flavor. Very quick to germinate and mature with the early sorts. This pea will not stand adverse conditions, however, as well as some of the other sorts, and seed must be planted after all danger of early frost has passed. Seed large, cream colored, wrinkled.
Potas Laton. Closely resembling Gradus in habit, rapidity of growth, earliness and foliage, 26 to 30 inches high, and much andier in every respect than Gradus.
Potact. Norge vigorous vines in length. Broad and pointed pods medium green in color, 332 to 4 inches in length. Broad and pointed it he ends. No variety known will produce more pods, and no pods could possibly shell out better. The Potlatch is a variety form which anyone may expect great things. Fit for table use it days from planting. Seed green, wrinkled, large in size.
Muke of Albany. Resembling the Telephone in appearance. The and foliage medium green in color. Height, 50 inches.
Muke of Albany. Steng and vigorous in growth, 42 to 50 inches in height.
Mute Marrowfat. Vines hardy, strong, vigorous and bearing mode in the size.
Mute Marrowfat. Strong and vigorous vines bearing pods near the Marrowfat. Strong and vigorous vines bearing pods near the top of the store strong and vigorous vines bearing pods form the anyone may expect great things. Fit for table use is days from planting. Steed green in color. Height, 50 inches.
Mute of Albany. Resembling the Telephone in appearance. The and foliage medium green in color. Height, 50 inches.
Mute Marowfat. Strong

### PEPPERS

The pods of the pepper are used in sauces, salads, soups or as a seasoning, and the large mild varieties called mangoes are eaten from the hand or variously stuffed and prepared with cab-bage, tomatoes or meat. The pods of peppers are green till in ripening they turn red or yellow, according to the variety. Start pepper in hot-beds and in other ways treat like a tomato. Set out of doors after frosts in thirty-inch rows, giving each plant eighteen inches in the row. One ounce of seed give, ac-cording to the handling, from one to two thousand plants and one pound plants an acre. Sweet Mountain. Plants very vigorous and productive, grow-ing upright, with moderately large, leaves. Fruit very large, long, often eight inches or more in length, by two in diameter. Large Bell or Bull Nose. A very large sort of inverted bell shape, suitable for filling or for mixed pickle. Flesh thick, hard and less pungent than most other sorts. Ruby King. An improved American sort, reaching the largest size, yet retaining the symmetrical shape of the smaller sorts. Golden Upright. The fruits are large and of a beautiful rich solden yellow, tinged w

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and of a beautiful rich
 golden yellow, tinged with blush red. The peppers are mild and as pleasant to the taste as Ruby King.
 Red Cherry. Plant tall, bearing a profusion of bright, red, round fruit which is very pungent when ripe.
 Chinese Giant Pepper. Without doubt one of the very best and largest Mango Peppers ever introduced. Its mammoth size, splendid shape, beautiful, rich, glossy-red flesh and mild flavor, all lead us to speak of it in words of commendation.

Golden Dawn. In shape it resembles the popular Bell or Bull Nose Pep-per. It is of a most beautiful golden yellow color. Red Chill. Used in the manufacture of pepper sauce. Long Red Cayenne. A long, slim, pointed pod, and when ripe of a bright red color. Extremely strong and pungent.

#### PUMPKIN

The finer varieties of pumpkins are used for pies and the coarser ones for stock feeding. While the pumpkin may be grown very much as cucumbers are grown in a garden, they are more frequently planted in the field with corn, where several seed are dropped in each fourth hill. Planted alone, six to ten seeds are covered one inch deep in hills eight to ten feet apart and tainned to two to four plants to the hill. One ounce plants twenty-five hills and two to four plants of seed generously plants an acre. As this crop requires as much time as corn to mature, the plants twenty-five hills and two to four plants, other and the set of the plants twenty-five hills and two to four plants; cultivated mainly for stock-feeding, producing enormous crops. Mammoth Potlron. The flesh and skins are of a bright golden yellow has been grown to weigh 200 pounds.

potato.

Small Sugar. This variety is very small, but of most excellent quality for pies. Pie. Fruit of medium size, nearly round; skin light yellow, smooth and covered with a fine gray netting. Flesh light yellow, very thick, sweet and finely flavored. Makes very delicious pies,

POTLATCH





### RADISH

Plant radishes on a light soil if a choice is possible, and every second week for a succession from the time the soil can be worked in spring till the first light frost. Plant in ten to eighteen-inch rows, cover the seeds one-half unch deep and permit four to ten radishes to grow to the foot of row, according to variety. Use one ounce of seed to one hundred feet of row and eight to twelve pounds to the acre. Radish seed, which germinate quickly, may be sown with some slow-germinating seed that the cultivation of that crop may begin the earlier, or the quicker-growing radish may be grown between rows of some slow-growing crop that later requires considerable space. The Winter Radish is sown at late turnip planting time and used in the autumn or stored for winter like the turnip. Monte deep scarlet colored skin the flesh white, very crisp and tender. Olive Shaped Bright Red.Leafless Forcing. The extra early forcing radishes the remarkable for the small size of their leaves. They develop their roots in so short a time that the latter are practically in advance of the leaves. Rosy Gem. One of the very earliest in cultivation. Shape a perfect globe. Deep scarlet top, blending into pure white at bottom. Scarlet Turnip, White

Scarlet Turnip, W h it e Tipped. One of the hand-somest of the turnip rad-ishes and a great favorite in many large markets, for early planting outdoors. E arly Scarlet Turnip, The standard early turnip radish. Fine flavored and mild.

Deep Scarlet Turnip. This is a very bright col-ored scarlet turnip radish, very early and short leaf,

ored scarlet turnip radish, very early and short leaf, well adapted to forcing un-der glass. White Summer Turnip. A very large turnip-shaped variety; white, very crisp and mild. Long Brightest Scarlet, White Tipped. This is the brightest and handsomest colored scarlet radish known. known.

known. French Breakfast. Olive-shaped, scarlet, with white tip; crisp and tender. Very early. A general favorite. Long White Vienna, or Lady Finger. A very ex-cellent white variety with long, very smooth white roots long, very smooth roots.





### RHUBARB

Rhubarb, familiarly known as Pie Plant, or Wine Plant, is cultivated in gardens for its leaf stalks, which are used for pies and tarts. Immense quantities are now annually sold in all the larger markets. No private garden should be without it.

should be without it. Rhubarb succeeds best in deep, somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep, and thin out the plants to six inches apart. In the fall transplant the young plants into very highly manured and deeply stirred soil, setting them four to six feet apart each way, and give a dressing of coarse manure every spring. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed. Our seed is saved from selected plants of the Linnæus, Victoria, Giant and other improved sorts, but like the seeds of fruit trees, rhubarb seed cannot be relied upon to reproduce the same varieties. Rhubarb seed Rhubarb Seed.

Rhubarb Roots. By express, not prepaid, 20c each, \$1.50 per dozen. PRICES ON LARGE LOTS OF RHUBARB ROOTS ON APPLICATION.

### SALSIFY

#### (VEGETABLE OYSTER)

The long, white tapering root of salsify resembles a small parsnip, and when cooked is a good substitute for oysters, having a very similar flavor. It succeeds best in a light, well-enriched soil, which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow unevenly and ill-shaped. Sow early and quite deep, giving the general culture recommended for parsnip. The roots are perfectly hardy, and many remain out all win-ter, but should be dug early in spring, as they deteriorate rapidly, after growth com-mences. Store a quantity for winter use in a pit or cellar in damp earth or sand.

Large White. The common variety, roots medium sized, smooth; flesh white. Mammoth Sandwich Island. This is in every way superior to the Large White, being larger, stronger growing and less liable to branch. Invaluable to market gardeners.

### **SPINACH**

Spinach, a delicious green, resembling in growth a non-heading lettuce, is happily the best of tonics. As early as the soil can be worked, sow it one-half inch deep in four-teen-inch rows, using one ounce of seed to one hundred feet, and in the second week will appear a tiny plant with two very narrow leaves that do not resemble the true leaves that follow. Cutting should begin forty-five days from sowing. It is impossible to put spinach on too rich a soil, and nitrate of soda is used on it with profit.

South of the Ohio, spinach winters without protection. North it very often winter kills with good drainage and the best of straw covering.

All spinach quickly runs to seed in the heat of summer.

. . . . . . .

Victoria. An excellent sort, which forms a very large, exceed-ingly thick, dark green leaf, somewhat curled in the center. It be-comes fit for use nearly as early as any, remaining so much longer than most kinds, and cannot fail to please, whether grown for the market or in the private garden.

Savoy Leaved. The earliest variety and one of the best to plant in autumn for early spring use. Plant of upright growth, with narrow, pointed leaves, which are curled like those of the Savoy cabbage. It grows quickly to a suitable size for use, but soon runs to seed.

Round Summer Broad Leaved. This variety is generally prefer-red in the North for early spring sowing, and is the favorite with our market gardeners. The leaves are large, thick and fleshy. Though not quite as hardy as the Prickly Winter, it stands the winter very well.

Improved Thick Leaved. A variety which grows very rapidly, forming a cluster of large, very thick, slightly wrinkled leaves of fine color and quality when cooked. Especially recommended for market gardeners.

Long Standing. An improved, round seeded strain of excellent merit, having all the good qualities of other sorts and continuing in condition for use much longer. The leaves are smooth and very dark, rich green. Very popular with market gardeners.

**Prickly Winter.** A very hardy variety and will withstand the severest weather with only a slight protection of leaves or straw. The seed is prickly, leaves triangular, oblong or arrow shaped. It is used for fall sowing, which in this latitude is about the first of September.

New Zealand. (Tetragonia expansia.) This branching plant, a spinach in its use and not in its growth, frost kills, but grows luxuriantly in the summer heat. Plant these large seeds three in a hill, three by two feet apart or start the plants under glass and transplant.

### SORREL

Large Leaved French. Sow in drills as soon as the soil can be worked in spring and three to six inches apart in the row. Cutting begins in sixty days and continues for several years. Used as cooked "greens" or as a salad. Send the address of your friends who are interested in a good garden and they will receive a copy of this catalogue,

Prices of Seeds Vary. We quote Market Values upon request and always give our customers the benefit of the lowest price that the market condition will warrant. Special prices on a general list will be given upon application. LET US HEAR FROM YOU.





**ROUND LEAVED SPINACH** 



### SOUASH

Giant Crook-Neck. This strain is a great im-provement on the old variety of Crook-Neck. It is larger and better in every way.

Straight-Neck Summer Squash. Market gar-deners who ship early squash to distant markets know the difficulty of packing the crook necked variety in boxes to good advantage. In our straight-neck the bad feature of the crook has been overcome, and by continued selection the size has been increased more uniformly in shape and improved quality.

Golden Custard-Bush. Exceeds in size any of the scalloped sorts.

Delicata. Early and very prolific; of oblong shape. Ground color orange yellow, splashed and striped with very dark green. Although of small size, the squashes are very solid and heavy, while the quality is rich and dry.

the quality is rich and dry. Early White Bush Scallop. Similar in form to the Golden Bush, but with a cream white skin, and more tender and delicate flesh. Mammoth White Bush. This has been obtained by years of careful selection. Although we have sold this squash for a number of years, we again call special attention to it. Mammoth Chili. The largest of all squashes, growing to an immense size, often weighing over two hundred pounds, while its rich fine-flavored flesh insures its value for all purposes.



#### WARTY HUBBARD

WARTY HUBBARD Warty Hubbard. This is the best strain of Hubbard Squash. By its rough, hard, warty shell and its dark olive green color it can be distin-guished from any other strain, either in the field or on the market. It was introduced in 1894 and since that time under different names at dif-ferent places it has been given out to all who have called for the best stock of Hubbard Squash. We have maintained its purity by continued selection and offer headquarters seed. Golden Hubbard. This is a very distinct sort, of the shape and general character of the Hubbard, but a little smaller; of rich orange red color, instead of the dark olive green. Delicious. This is one of the best Winter varieties. Its color is almost uniform of a green shade, with occasionally a blue specimen, it being just about as pure in this respect as was the original Hubbard. In size it also closely follows the original Hubbard, which weighed between 5 and 10 pounds. In thickness of flesh it surpasses nearly every variety, the color being a dark orange: Fordhock. The vines are of strong, vigorous growth and wonderfully productive. Fruits oblong in form, eight to ten inches in length, slightly vidged; smooth, thin, yellowish skin; flesh very thick and of a light straw yellow.

vellow

#### TOBACCO

Pennsylvania Seed Leaf. This is the variety mostly grown for cigars, and is of fine quality and excellent flavor. Persian Rose. A fine brand for cigars, Sells well. Yellow Pryor, A fine yellow sort, and succeeds well where others fail. Blue Pryor. This is the genuine article and a good sort. General Grant. Very early, and a good yielder. Connecticut Seed Leaf. The best sort for cigar wrappers. Try it. Havana. This is the genuine article, and is first-class. Ohlo. White leaved. A large yielder.



STRAIGHT-NECK SUMMER

MAMMOTH WHITE BUSH

Orange Marrow. A variety developed by selec-tion from the Boston Marrow and not so large but much earlier, and the earliest of the winter vari-eties. Fruit deep orange color, netted with cream; shape similar to Boston Marrow; flesh thick, deep yellow, of fine quality. Essex Hybrid. This is not only one of the rich-est flavored, finest grain and sweetest of all squashes, but it is also one of the very best keep-ers that we know of. Short cylindrical shape, hav-ing on the blossom end a small cap shaped enlarge-ment. The flesh is dry, sweet and thick, and of a bright orange color. Boston Marrow. Second early, coming in about ten days after the bush and Crook-neck sorts. Skin yellowish, very thin; the flesh dry and fine grained, and of unsurpassed flavor. Hubbard. A general favorite and more largely grown as a late sort than any other; it is of large size, often weighing from nine to ten pounds. Color bluish green, occasionally marked with brownish orange or yellow. Flesh fine grained, dry. and of excellent flavor. It can be had in use from September to May.



CONNECTICUT SEED LEAF TOBACCO

### TOMATO



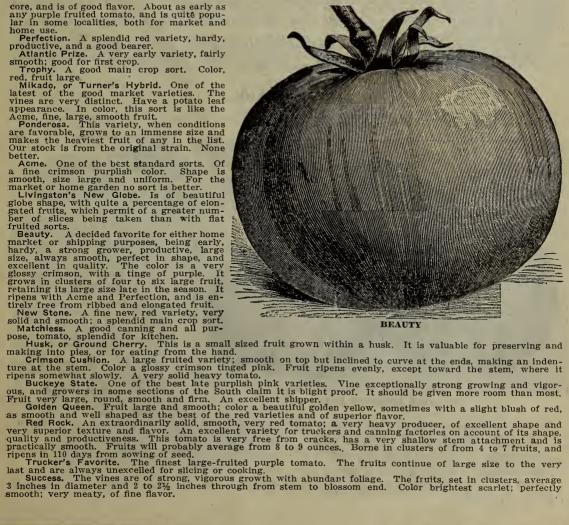
SPARK'S EARLIANA

core, and is of good flavor. About as early as any purple fruited tomato, and is quite popu-lar in some localities, both for market and home 1190

ar in some localities, both for market and home use. Perfection. A splendid red variety, hardy, productive, and a good bearer. Atlantic Prize. A very early variety, fairly smooth; good for first crop. Trophy. A good main crop sort. Color, red, fruit large. Mikado, or Turner's Hybrid. One of the latest of the good market varieties. The vines are very distinct. Have a potato leaf appearance. In color, this sort is like the Acme, fine, large, smooth fruit. Ponderosa. This variety, when conditions are favorable, grows to an immense size and makes the heaviest fruit of any in the list. Our stock is from the original strain. None better.

sort. Livingston's Favorite. A well known red variety, smooth and

solid. Optimus. One of the best table tomatoes. Vine medium Sized, vigorous and strong. While not classed as a first early, it is reported by growers to ripen fully as early as many of the earliest, making an excellent forcing variety. The fruit is me-dium sized, oval, very smooth, and of a very bright crimson-scarlet color. Dwarf Champion. This is a purple fruited variety, which forms very strong plants about two feet high. The branches are short, making a bushy plant that stands quite erect without stakes. This sort is often sold as Tree Tomato. Fruit smooth, medium sized, color purplish pink, fairly solid, but has no hard



### TURNIP

While the main crop of turnips is planted in July north of the Ohio, more turnips should be grown in early spring. Seed may be broadcast on the few soils freed of weeds, but it is more advisable to sow in one or two-foot drills, cover less than one-half inch and thin to stand six inches apart in the row. Use one-half ounce of seed to one hundred feet of row and two pounds to the acre. The turnip requires one-half more seed when broadcast than in drills and the salad turnip requires one-half more seed than the turnip sown for a root crop.

Extra Early White Milan Turnip. The Early White Milan is one of our most popular turnips for spring sowing, a splendid extra early turnip in which the extreme earliness, small top and tap root of the Purple Top Milan is united with clear white skin and flesh.

Pomeranean White Globe. This is one of the most productive kinds, and in good, rich soil roots will frequently grow to twelve pounds in weight. It is of perfect globe shape; skin white and smooth; leaves large and dark green.

Skin white and smooth, leaves large and dark green. Purple Top White Globe. An early variety. Globe shaped; heavy cropper. In other respects similar to the Red Top Strap Leaf. A handsome looking bulb. And is rapidly taking the lead of all other varieties of early turnips for market garden purposes. Extra Early Purple Top Milan. The earliest in cultivation, two weeks earlier than Purple Top Strap Leaf. The bulb is flat, of medium size, quite smooth, with a purple top. Flesh, white, hard and of finest quality. It is an extra good keeper.

Large White Norfolk. The Standard variety for field culture for feeding stock. Very large size.

Cow Horn. This variety is pure white, except a little shade of green at the top, and is carrot-like in form, growing nearly half out of the ground, and slightly crooked. It is delicate and well flavored, of very rapid growth, and has obtained considerable favor as a market sort for fall and early winter use.

market sort for fail and early winter use. Early Snowball. A perfectly globe-shaped, white-skinned turnip. It is exceedingly pro-ductive. The flesh is fine grained, firm and of very delicate flavor. It is one of the best keeping of the white-fleshed sorts. Very early and particularly adapted for family or market use. We recommend it to market gardeners because its earliness and fine appearance make it a very profitable variety of turnip. Early White Flat Dutch. An excellent garden variety. The best for spring sowing.

Belongs to the class of quick growing fall turnips. Its shape is nearly oval or egg, as its name White Egg. would indicate.

Seven Top. Cultivated extensively in the South for the tops, which are used for greens. It is very hardy and will grow all winter, but does not produce a good root, and is only recommended for the tops.

Purple Top Strap Leaf. Rapid grower and mild flavor. The most popular variety for early use, either for the table or stock.

Yellow Aberdeen. Very hardy and productive; a good keeper; globe shaped. Color pale yellow with purple top. Very firm in texture, and closely resembling the Rutabaga in good keeping qualities. Good either for table or stock. Large Amber Globe. One of the best varieties for a field crop for stock. Flesh yellow, fine grained and sweet; color of skin, yellow; top green. Hardy, keeps well, a good cropper. Very popular in the South.

### RUTABAGA

Rutabagas, or Swedish Turnips, with their superior keeping qualities had best be drilled a month earlier than other turnips, given eighteen to thirty-inch rows and thinned to stand six to twelve inches apart in the row.

IMPROVED AMERICAN RUTABAGA

Improved American. The best yellow fleshed, purple top variety grown for stock or table.

Budlong's White Rock. Though sometimes called a turnip, this is more like a rutabaga. The root is large, both skin and flesh very white. An excellent keeper and a desirable sort for market gardeners.

White Rutabaga. This variety is now extensively cultivated, and preferred in many sections for its white flesh. It is very hardy and productive, keeps well until late in the spring, and is highly esteemed for its sweet, delicate flavor.

Laing's Improved. One of the earliest of the rutabagas. Forms a handsome bulb of good quality. Keeps well; good for table use.

Long White French. A very delicate flavored variety. An ex-cellent keeper and fine for table. very ex

Skirving's Purple Top. A very heavy cropper. One of the best for field culture.

Carter's Imperial Hardy. An English variety resembling the preceding. Very productive and of fine quality.

Monarch or Tankard. This is a yellow fleshed sort having very large tankard shaped roots, with relatively small necks and tops. Color purplish crimson above ground, yellow below; flesh very solid, fine grained and of the best flavor. This very popular variety is also sold as Hurst's Monarch and Carter's Elephant. An improved strain of purple top Swede, excelling in uniformity of shape, color and quality. Drummond's.

Considered by many an excellent table sort.

Sweet German. A superior variety for table or stock. Flesh firm, sweet and juicy. Bangholm. A very superior variety, both in form and quality, and held in high estimation in many parts of England. Of large size, small neck, few or no side roots, and yields well. Flesh yellow, sweet and solid; skin yellow with purple top.



PURPLE TOP GLOBE

# **CHOICE FLOWER SEEDS**

STANDARD VARIETIES

Most flowers are as easily grown as vegetables. In the select list that follows will be found flowers and plants for many uses. Some plants used for cuttings bring the sunshine to those that must live indoors, while others are useful for cemetery lots, a tribute to those that precede us. Some plants can be grown in a partial shade, where grass does not grow, and others are serviceable in hanging baskets or veranda boxes. Some vines or tall plants may be grown to hide or make more sightly some fence or pile of stone or stump or build-ing. Flowers are just as necessary as are pictures, and to their beauty is often added such stimulating and pleasing perfumes as cannot be bought in bottles. Flowers fall readily into three classes:

Annuals bloom, seed and die the first year. Biennials bloom and die in their second year, but they may bloom also in their first year. Perennials flower for several years and some of them may bloom in the first year of their existence.

#### ASTERS

Of the general beauty of these flowers it is unnecessary to speak; the immense world-wide demand for them shows their adaptability for any climate; and, coming into bloom, as they do, when most other flowers are fading away, enhances their value. For the best results the ground for the cultivation of Asters cannot be too richly pre-pared, although they will give satisfactory returns on any ordinary garden soil.

Dwarf Chrysanthemum-Flowered. Large double flowers resembling chrysanthemums, and valuable on account of profuse late flower-ing. All colors mixed.

Daybreak. The plants grow stiffly erect, eighteen to twenty inches in height, with ten to fifteen branches, each bearing a very large, extremely double flower, with incurved petals. The broad silvery petals are suffused with soft delicate pink.

New Giant Comet Asters, Mixed. With good cultivation, flowers of this type frequently measure four inches across, and in their fine form, large size, and long stem approach in beauty the fine Chrysan-themums grown in the greenhouse during the late fall months.

Semple's Branching. All colors mixed of this favorite longstemmed strain.

Queen of the Market. Of graceful spreading habit, it is in full flower two weeks before most other asters. Deep blue, white, pink, and rose in mixture.

Victoria. Flowers very large, double, and beautifully reflexed. The plants bear ten to twenty flowers, with the appearance of an elegant pyramid; one and a half feet. All colors mixed. Christmas Tree. This new type is of a branching pyramidal form.

Truffaut's Pæony-Flowered Perfection. Very double, large and beautiful flowers, with incurved petals.

German Quilled. The common double asters. Mixed Asters. Many varieties of different types.



COMET ASTER

Acroclinum. Summer flowering and an "everlast-ing,"



MARGARET CARNATION

Ageratum (Floss Flower). For edging or pots. Alyssum, Sweet. Trailing and fragrant. Alyssum, Little Gem (Carpet of Snow). Amaranthus. Tricolor (Joseph's Coat). Antirrhinum (Snapdragons). Tall mixed. Antirrhinum, Tom Thumb. Mixed, fine strain. Asparagus Plumosus Nanus. A house plant. Asparagus Sprengeri. For suspended baskets. Bachelor's Button (Ragged Sailor or Corn Flower), Balloon Vine. A white flowered climber, Balsam (Lady Slipper). A garden flower, Calliopsis or Coreopsis. For bedding. Candytuft. For cutting or beds. Canna. A fine bedding plant. Canterbury Bell. A hardy biennial. Carnation. For pot and outdoor culture. Castor Bean. Tall, stately plants. Chrysanthemum. Summer flowering and for cutting. Cinerari. Daisy-like bright flowers. Cobea Scandens. Bell-flowered, rapid climber. Cosmos. For autumn flowering background. Cockscomb. For the garden or in pots. Coleus. Attractive foliage plants. Cypress Vine. Flowered rapid climber. Cypress Vine. Flowered rapid climber.
Dahla. A late summer and autumn flower.
Daisy. Fine quality double mixed.
Forget-Me-Not. For the shaded spot.
Four o'Clock (Marvel of Peru).
Fox Glove or Digitalis. For the half shade.
Fuchsia. For half shade or pot culture.
Geranium. For window boxes and pots.
Globe Amaranth. Dry for winter bouquets.
Godetia. For borders and pot culture.
Gourd. Apple Shaped, Bottle, Dipper, Dish Cloth, Hercules Club, Japanese Nest Egg, Mock Grange, Pear Shaped, Sugar Trough.
Gypsophila (Baby's Breath). For edging.
Helichrysum. The Straw Flower.

#### DESCRIPTIVE CATALOGUE OF SEEDS

### NASTURTIUM

For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels Nasturtiums. All they need is a moderately good soil in a well drained, sunny position, and from within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms.

#### **DWARF**

DWARF Chameleon. The colors vary from yellow to deep, crimson. Empress of India. Brilliant dark scarlet. Golden King. Beautiful rich dark gold. Golden Queen. Golden yellow leaves and flowers. King of Tom Thumb. Deep scarlet flowers. King Theodore. Black-red; the darkest variety grown. Pearl. Creamy white. Rose. Deep bright rose, tinted salmon. Ruby King. Ruby-red, with salmon tint. Yellow. Bright yellow; no blotches. Dwarf Varieties Mixed.

 TALL

 Chameleon. Flowers similar to Dwarf Chameleon.

 Dark Crimson. Deep velvety crimson.

 Hemisphaericum. Straw color, blotched with rosy pink.

 Lemon Yellow. Clear bright yellow.

 Orange. Deep orange, blotched.

 Pearl. Creamy white.

 Rose. Soft pink; a very choice sort.

 Scarlet. Bright orange scarlet.

 Tall Varieties Mixed.

 LOBB'S CLIMBING NASTURTIUMS

 Brilliant. Deep scarlet.

 LOBB'S CLIMBING NASTURTIUMS Brilliant. Deep scarlet. Crystal Palace. Very bright, orange salmon flowers. Spitfire. Bright, fiery scarlet. Choice Mixed.

NASTURTIUM

### SWEET PEAS

In few lines of endeavor has the advancement been so rapid as in the development of sweet peas. This the public seems to appreciate and this flower is today a general favorite. If possible, for sweet peas spade deeply a well drained soil in the fall and add any good compost, including some wood ashes or lime. As early as the ground can be worked in spring plant the peas in a trench five inches deep and cover with one inch of sand or fine soil. When the peas are well above the ground fill the trench and thin the peas to stand two to three inches apart in the row. When planted, or very soon afterward, set some four to five-foot supports. Mulch with lawn trimmings, water thoroughly once a week, and cut frequently to keep the plant flowering. With a select list of varieties we list several excellent mixtures. Admiration. Rosy lavender. Agnes Eckford, Light pink. America. Blood red striped white.

America. Blood red striped white. Aurora. Orange rose, striped white. Blanche Ferry. Pink and white. Black Knight. Dark maroon.

### MIXED SWEET PEAS

Choice Mixed. The best blending of the choicest named varieties. No better mixture can be had.

Eckford Mixed. A very choice mixture of the Grandiflora types. Florists' Mixed. A blend of the sorts best suited for the cut flower trade. Named Sorts Mixed. Blended from the named sorts of the Unwin and Grandiflora types Spencer Varieties Mixed. Christmas Flowering Mixed.

Counters of Cadogan. Reddish mauve, wings blue. Dorothy Tennant. Rosy mauve. Dorothy Eckford. One of the best whites. Duke of Westminster. Deep rose ma-

Black Knight. Dark maroon. Captivation. Rosy purple, large. Earliest of All. Pink and white. Earl Cromer. Claret magenta. Emily Eckford. Reddish mauve. Emily Henderson. Pure white. Evelyn Byatt. Fine orange salmon. Toom. Extra Early Blanche Ferry. Pink and white. Lady Mary Currie. Orange pink, shaded likac. Lady Mary Blanche Ferry. Pink and white. Loveiy. Soft shell pink. Maid of Honor. White edged lavender. Mrs. Joseph Chamberlain. White, flaked rose. Mrs. Joseph Chamberlain. Miter Joseph Chamb

GRANDIFLORA TYPE

# CHOICE FLOWER SEEDS-(Continued)

Heliotrope. For bedding, bouquet and its perfume. Hollyhocks. For a tall background. Hyacinth Bean. A flowered climber.

Ipomoea. A flowered rapid climber. Setesa (Brazilian Morning Glory). Grandiflora (Moon Flower). Bona Nox (Evening Glory). Jobs Tears. Grass with slate colored seeds. Kochia (Summer Cypress or Burning Bush). Larkspur. For bedding or cutting. Lathrus Latifolius (Everlasting Pea). Lobelia. For pot culture or bedding. Linum (Flowering Flax). For bedding. Love-in-a-Mist (Lady-in-the-Green).

Marigold, Bedding or borders. African Double, Orange color. Eldorado, Several shades of yellow. French Dwarf, Brown-red.

Mignonette. For cutting and its perfume. Sweet. The old variety. Golden Queen. Fragrant and yellow. Machet. Red flowered.

Morning Glory. The well known climber.

White. Blue.

Crimson.



**DOUBLE POPPIES** Portulacca (The Moss Rose). White Pink. Crimson. Mixed. Many colored. Double Mixed. Many colored. Double Mixed. May Colored. Double China. Double Diadem. Single Mixed. Eastern Belle. Salpiglossis. For border or bedding. Salvia. (Flowering Sage). Sensitive Plant. when touched. Leaves droop Sun Flower. For screen or back-ground. Sweet William. For bedding and borders. Verbena. For window boxes or bedding. Wild Flower. Garden mixture. Wall Flower. For bedding and bouquets.

Zinnia. For bedding and bouquets.



GIANT FIVE-SPOTTED PANSY

Moschatus (Musk Plant). For hanging

Mimulus Moschatus (Musk Flam), baskets, Tigrinus (Monkey Flower). A pot plant, Morning Bride. Borders, beds and cuttings. Nicotiana Sanderae. Flowered Tobacco. Affinis. White and fragrant.

- Annus. White and fragrant. Pansy. Emperor William. Deep blue. King of Blacks. Darkest flower grown. Giant Five-Spotted. Trimarpeau. Mixed finest strains. Extra choice mixed. White.

  - Yellow.
  - Blue.
- Petunia. Fine mixed, for bedding.
- Phlox. Mixed, for bouquet or bedding. Alba. Pure white.
- Poppy Carnation. Mixed colors, double fringed. Iceland. A perennial double. Mikado. The striped Japanese. Shirley, of many colors.



A BORDER OF SALVIA

25

### LAWN GRASS

GRASS Tour outdoor carpet should be of an even colored grass that grows so close that weeds cannot get through. Think of your lawn as a number of plants, not "just grass." These lawn plants ask what other plants require: good drainage, a soil of a fit quality, the addition of lime where soil is sour, deep preparation by spading or plow-ing, the addition of fertilizers before planting and from time to time afterwards as the plants continue to feed, and good seed. Where manure is used at any time it should be thoroughly decomposed and free from weed seed and a complete fertilizer at the rate of 500 pounds to the acre is advantageous. Beating had best be done in the spring or fall. Be the that the grass may be even in its growth and finish by using a fine rake and a heavy roller. Seed heavily, uses or one pound to three hundred square feet. Sow the seed carefully on a calm, dry day and rake lightly. The have frequently, setting the machine to out shigh as possible, and as weeds grow where grass seed shigh as possible, and as weeds grow where grass seed the may be necessary to dig out with a knife. The very dry weather a thorough wetting should be grow nown, weeds will grow in your lawn and sound to the are the and the grow in your lawn and sound to the seed carefully on a calm, dry day and rake lightly. The very dry weather a thorough wetting should be grow nown, weeds will grow in your lawn and sound to the it may be necessary to dig out with a knife. The very dry weather a thorough wetting should be grow about once a week, a little water on a dry surface to so the sourd to the awn should be re-rolled while the to so the sourd.

Each spring after the winter heaving of the lawn by forst is over, the iawn should be re-rolled while the soil is wet. Park Lawn Grass Mixture. For quickly producing a of grasses we sell for lawn making, and will give satisfaction wherever sown. Mixture for Shaded Spots. Usually it is quite difficult to obtain a satisfactory growth of grass under trees and in snady places; for sowing in such places we recommend the use of this special mixture. It will quickly produce an abundant and even growth of beautiful green grass.

### **GRASS SEED**

Blue Grass. (Poa Compressa.) Commonly called Canada Blue Grass. valuable grass for pasture and lawns. Market Price. A very

English Rye Grass. (Lolium Perenne.) A very nutritious rapid growing variety, valuable for meadows and pastures. Twenty-four pound bushel. Market Price. Tall Meadow Oat Grass. (Avena Elator.) This produces an abundant supply of foliage and is valuable for pasturage on account of its early and luxuriant growth. Market Price.

Sweet Vernal Grass. (Anthoxanthum Odoratum.) Permanent pastures should not be sown without a portion of this grass. Market Price.

Hard Fescue. (Festuca Duriuscula.) Similar to Sheep's Fescue, but not so dense, and growing somewhat taller. Market Price.

Red Top. (Agrostis Vulgaris.) A valuable grass for moist soils and low lands. It is a good, permanent grass, standing our climate well.

Solid Seed, Best Grade. Market Price.

Chaff Seed. Market Price.

Timothy. (Phleum Pratense.) This is decidedly the best grass for hay. Market Price.

Italian Rye Grass. (Lolium Italicum.) A valuable European variety, adapted to any climate, and produces large and nutritive crops. Eighteen-pound bushel. Mar-ket Price.

Orchard Grass or Rough Cocksfoot. (Dactylis Glomorata.) This is one of the most valuable and widely known of all pasture grasses. It is well adapted for sowing under trees or orchards. Market Price.

Meadow Fescue or English Blue Grass. (Festuca Pratensis.) Needs rich ground, succeeds well on prairie soil. Sow about twenty-five pounds per acre. Market and Price.

Wood Meadow Grass. (Poa Nemoralis.) One of the best varieties to sow shaded situations, such as orchards and parks, for either hay or pasturage. S about thirty pounds to the acre. Market Price. in Sow

Creeping Bent Grass. (Agrostis Stolonifera.) Particularly valuable for lawns that are to be used as croquet and tennis grounds. Market Price. Meadow Foxtail. (Alopecurus Pratensis.) Valuable for permanent pastures, and does best on good moderately moist soil. Market Price.

Tall Fescue. (Festuca Elatior.) A valuable perennial grass, very pr and nutritious. If used alone, sow forty pounds per acre. Market Price. productive

Blue Grass. (Poa Pratensis.) Commonly called Kentucky Blue Grass and known in some sections as "Green Meadow Grass" and "June Grass." It is the best pasture for our climate and soil, succeeding finely on hill lands and pro-ducing the most nourishing food. Sow early in the spring or during the months of October and November. Fancy clean seed. Market Price.

### **CLOVER SEED**

Medium Red or June. (Trifolium Pratense.) Sow in spring or fall, at the rate of eight or ten pounds per acre. Market Price. Mammoth or Large Red. (Trifolium Pratense.) Sow at the rate of about eight pounds per acre. Sixty pounds per bushel. Market Price.

White Dutch. (Trifolium Ripens.) A small, creeping, spreading, perennial variety, valuable for pasture and lawns. Market Price. Alsike or Swedish. (Trifolium Hybridum.) This valuable variety is fast gain-

ing great popularity.

Alfalfa or Lucerne. (Medicago Sativa.) Will bear cutting three or four times ing the season. For bringing up poor land it is the best of the clovers. during the se Market Price.

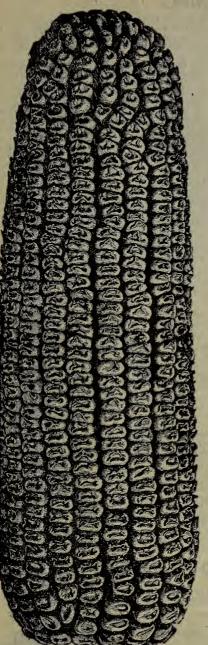
Crimson or Scarlet Clover. Can be seeded at any time from June to October, at the rate of fifteen to twenty pounds per acre. Market Price.



RED TOP GRASS

ENGLISH RYE GRASS





### FIELD CORN

#### Prices Change. Ask for Market Price

Pride of the North. This famous corn still retains its popularity; an exceedingly early and prolific variety, always maturing in ninety days; often shelling sixty-two pounds of grain from seventy pounds of ears. Kernels closely set, large, of deep orange color; cob very small and red; stalks about seven feet in height. This is, probably, the best Dent corn for general cultivation in the north.

Champion White Pearl. Originated in Illinois, and is enormously productive; a strong grower; matures in about 100 days. The stalk is stout and thick, with large ears set low.

lowa Gold Mine. A splendid yellow corn. Everyone who has tried it is enthusiastic in the praise of this splendid variety which was introduced in 1892. It has everywhere received the most cordial endorsement as one of the best and most profitable varieties ever grown.

lows Silver Mine. The Jowa Silver Mine is a splendid white corn. In 1894, the poor corn year, it yielded at the rate of ninety-seven and one-third bushels to the acre. It has no barren stalks. The ears are very even in size, being but little smaller at the tip than at the but, and corn is well filled out over the tip.

Longfellow Flint. This is an eight-rowed Yellow Flint variety, the result of careful selection. The ears are from ten to fifteen inches long, one and one-half to one and three-fourths inches in diameter, are well filled out to the extreme end of cob.

Canada Eight-Rowed Flint. This standard Flint corn is the earliest of all. It is a safe corn to plant where the season is short. It will mature in eighty-five days of good corn weather.

Improved Learning. The Improved Learning Corn is a medium early yellow variety; large, slightly tapering ears, deep grain, and medium sized red cob. In favorable years there is much uniformity of both kernels and ears. Its numerous broad leaves not only encourage a healthy development but make it a valuable variety for feeding.

### MISCELLANEOUS GRAINS

FIELD PEAS. White Canada. Blue or Green.

#### COW PEAS.

Black Eye. Whip-Poor-Will. Black. Seed all black. Clay Colored.

#### MILLET SEED.

Japanese Barnyard. Siberian. Pearl. Hog. Common. German or Golden. Hungarian.

#### MISCELLANEOUS.

Spurry. Lahyrus Sylvestris. Barley, Common. Rye, Spring. Rye, Winter. Buckwheat, Silver Hull. Buckwheat, Japanese. Flax Seed, for Sowing.

### KAFFIR CORN

Kaffir Corn. One of the best forage plants. If the crop is wanted mainly for fodder, it is recommended to cut down the whole stalk when the first seed heads come into bloom.

Dwarf Essex Rape. A forage plant of great merit, easily grown in any part of the United States, on any land that will raise turnips or corn, and will furnish abundant supplies of succulent, rich, nutritious pasture, at a season when it is most needed.

Russian Sunflower. This is highly prized by poultry raisers and farmers as a cheap food for fowls. It is immensely productive and can be raised cheaper than corn, as any waste piece of ground will suffice. It is the best egg-producing food known.

PRICES VARY ON ALL FARM SEEDS WRITE FOR MARKET PRICE BROOM CORN. Improved Evergreen. Early Japanese.

SUGAR CANE.

Early Amber. Early Orange.



### NOTES ON GARDENING

While it is in a way true that anyone can garden, intelligence tells more quickly in agriculture, possibly, than in any other line of endeavor. Yet so many and varied are the ways of reaching a result in agriculture that no two experienced and successful growers would agree entirely upon the treatment of a crop or a piece of land. It does not follow that either grower is right or wrong, we would rather say that in the agricultural seas there are many good pilots with well charted courses and bid them "bon voyage."

In the work of gardening a sharpened stick or at most a hoe and a spade is all that is absolutely necessary, but the result will be vastly improved by the use of modern tools, hotbed frames and sash, some insecticides and a fungicide, drain tile, a compost heap and fertilizer.

but the result will be Vasily improved by the use of modern tools, hotbed trames and sash, some insecticides and a fungicide, drain tile, a compost heap and fertilizer. Hotbeds. While early in the year plants may be started in a sunny window, it is of profit and advisable to use hotbeds and cold frames for even a small garden. From the first to the latter part of March is quite early enough to make a hotbed. The time must vary according to the latitude. Provide a quantity of fresh horse-manure from the stables, and add to this, if they can be had, one-third to one-half of its bulk of leaves. Mix them thoroughly, tramping down the mass in successive layers, and form into a large pile, so that fermenta-tion will proceed, even in severely cold weather. In two or three days fermentation will be apparent by the es-cape of steam from the heap. Now turn again, and allow the heap to remain two or three days longer, or until the second fermentation commences. Make an excavation or pit 2½ feet deep, and of a size suited to the num-ber of plants required. The pit will be better if built up of brick. It should be made in some dry, sheltered spot, facing the south or east, if possible. Hotbed sashes are usually 3x6 feet, and one or two sashes will give early plants enough for a small family. The frame for sashes should be 18 inches high at the back and 12 inches in front, which will give the proper slope to catch the sunlight. Cross-pieces should be placed for the sashes, to slide on, to facilitate opening and shutting the frames. When everything is ready, the manure is placed in the pit and trodden down firmly in layers to the required depth, 2 to 2½ feet. Then put on the sashes, and keep the pit closed until the heat arises. At first it will probably be 100 degrees or more, which is too hot to sow the seed in; but in two or three days it will subside to 90 degrees or a little less, when the soil may be put on to manure; and in this the seeds may be sown thinly in drills 2 to 3 inches apart, and afterward (as soon as ou

Cold Frames are simply frames with tops of glass or cloth set on the ground, no bottom heat being applied. It is banked up on the outside during the winter with marsh hay, straw or coarse litter. The soil is prepared by forking in and thoroughly mixing to the depth of 10 or 12 inches a liberal quantity of old, well-rotted manure. The manure of an old hotbed is good for the purpose. The frame is prepared in the fall, and young Cabbage, Cauliflower and Lettuce plants are set out in it in time to get well established before very cold weather. Cauli-flower and Cabbage should be set down to the first leaf, and the soil made firm around the plants. The seed is usually sown, in this vicinity, from the 15th to the 20th of September. The young plants will be ready to trans-plant in about 25 to 30 days. During cold nights and stormy days the beds should be closely covered with the plants in a dormant state, without actual freezing, so that when spring comes, they are in a forward state for the plants in a dormant state, without actual freezing, so that when spring comes, they are in a forward state for the last week in February to the first week in March. The frame should stand in a warm and sheltered spot, and be kept from freezing by mats or a thick covering of straw during cold nights. Even before the hotbeds are made or the first seed purchased the garden should be planned on paper. If the garden has not been drained, preferably by tile, and there are very few pieces of ground that do not need drainage, an effort should be made to get rid of the surplus water so that the soil may warm up rapidly and be kept from freezing to plant in first begin. Frequently the application of lime or lime stone is more necessary than the application of commercial fer-

Frequently the application of lime or lime stone is more necessary than the application of commercial fer-

Frequently the application of lime or lime stone is more necessary than the application of commercial fer-tilizer and this question, too, must be answered early. Stones and stumps, along with trees of no value, should be removed from the garden, and every effort pos-sible made to get ready for the rush that comes with spring planting. There are easy ways as against the difficult ways of gardening, and from time to time the work should be carefully thought over with the idea of saving every effort possible. First of all, the vegetables should be planted in long rows so with a wheeled tool like the Perfection Garden Cultivator one can quickly cultivate the garden without stooping. It is also possible now to set plants while walking in an upright position and avoid the back-aches and suffering of other years by using a Masters Rapid Plant Setter. Tools like these should be secured before the day they are proceed. needed.

### MASTERS RAPID PLANT SETTER



Is built to do actual plant setting. It is no plaything but is strong and durable, and with fair play will set out more than a million plants before it is worn out.

THE OPERATION of our Plant Setter is very simple. You mark off your land both ways, then haul out a few barrels of water (about two barrels to the acre is usually enough), place these barrels on the headlands and have a few thousand plants all ready pulled, and place a good box full on the headland at the water barrels.

**THE MAN** who is going to do the setting simply needs a common grape or peach basket with the handle cut off entirely, then pass a leather strap or stout cord through one side of the basket and fasten same around your waist; take the side of the basket and fasten same around your waist; take the Planter in your right hand and have it nearly full of water and start down the row, putting in a plant at every mark clear across the field; fill up your basket with plants at the end of every row, also your Planter with water, and thus keep going back and forth across the field all day, and in ten hours any ordinary farm hand can set 10,000 to 12,000 plants and when a man gets well used to the Planter and has his land in the best condition possible he can set 15,000 plants per day without special effort.



Makes transplanting EASY, PLEASANT WORK and will produce a perfect stand of \$4.00 plants and a better quality crop. PRICE.....



#### PERFECTION GARDEN CULTIVATOR

Different From Others-Superior to All. The lightest garden tool on the market. Easiest to adjust.

Strongest in workmanship.

Easiest to operate.

Is a complete machine within itself.

Needs no extra parts.

The only garden tool made that throws the soil to or from the plants without extra attachments.

The scientific advocate of deep plowing does not mean deep plowing at once for all soils, but generally a gradual deepening of the soil by going a little deeper each year. Also by subsoiling and by dynamiting the subsoil, the roots of plants work to a lower level where they find little cisterns of water and new stratas of plant food. Deep plowed soil is slow to wash, so the land stays at home, retaining most of its fertility till some plant uses it. The successful Dutch farmer observed that the man who has one farm may soon have two—one above the other.

While the grower is building his land to two or three stories instead of one, he must not think of soil as inert and dead, something only to be analyzed by a chemist. Think of soil as a home where countless numbers of organisms will live if we give them an opportunity. There

these organisms will multiply with inconceivable rapidity. Organisms we cannot see without the use of a microscope we have used in many ways, as in the making of yeast breads and in the making of vinegar. Think of these modifications as being made partly by the work and partly by the presence of these microscopic live and dead bodies. So earth that is wisely plowed, well cultivated, also if necessary, drained and limed, modifies its appearance, feeling and texture, and becomes a new and a live soil.

With the little that man really knows about soil, there is much that he believes and still questions, and still more about which he asks questions and there returns no reply. Was the weed nature's attempt to shade the soil and prevent the surface baking or was the weed nature's effort to make man cultivate and earn? Never mind! When the soil seals and hardens on its surface, plant life is at once retarded or entirely discontinued. The most persistent plant is killed quickly under boards or sheets of tarred paper. It is necessary to give the soil air, and to do this, man cultivates the soil, often laboring with crude and awkward tools. In the soil home the man is trying to open the windows. By this cultivating or stirring of the soil man is also using a dust mulch to retain the necessary soil moisture.

home the man is trying to open the windows. By this cultivating or stirring of the soil man is also using a dust mulch to retain the necessary soil moisture. While the plow had long been brought to a state bordering on perfection, the tool necessary to the thorough cultivation of the garden was conspicuous by its absence till the introduction of the Perfection Garden Cultivator. This Perfection Garden Cultivator, a new disk and knife weeder, is the final evolution in hand cultivators. It does the weed killing, cultivating and mulching at one process, something no other cultivator accomplishes. It can be worked in gravel soil or in stony land, through sticks and coarse stubble, or in the softest loam. As a deeper mulch is required in dry weather than in moist weather, as a crop as it advances in age requires more shallow cultivation, as different crops and soils require different treatment, this tool is adapted to is also so simple a child can work it. While built for the gardener who wants a tool stout enough for his most robust workman, it is so easy of operation as to meet with favor in the hands of the woman flower grower or the little housewife.

The inventor of this tool is a practical onion grower and trucker. During his thirty years in truck farming and onion growing he has tried out all of the garden cultivators that have been made and recommended during that time. He knows the good points as well as the defects of each. From this knowledge he has perfected, after repeated efforts, this new tool, which, in a simple form, does all the work that can be done by the complicated attachments and combinations of the other tools.

One thumb screw is all that is operated in adjusting this tool. No attachments are necessary to make it do the work needed.

The two photographs show the tool complete. It is durable, made of the best material, and within the reach of all in price.

### Perfection Garden Cultivator

#### Is made in three sizes, viz:

No. 1. With two discs, on which 6 inch or 7 inch knives may be used.

No. 2. With four discs, on which  $7\frac{1}{2}$  inch,  $8\frac{1}{4}$  inch or  $8\frac{3}{4}$  inch knives may be used.

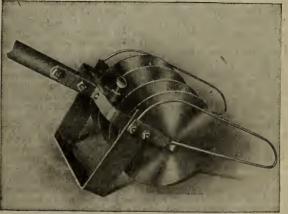
No.3. With four discs, on which 10 inch or 11 inch knives may be used.

The No. 1 will work rows 9 to 11 inches wide, No. 2 will work rows 11 to 14 inches wide, No. 3 will work rows 13 to 16 inches wide.

Mention what size knives you wish when ordering. The price is the same for any of the sizes.

Price \$5.00 Each

The stiff wire leaf, guards keeps the tops of the plants away from the discs.



Notice the Thumb Screw that Adjusts the Discs

#### DESCRIPTIVE CATALOGUE OF SEEDS



**FERTILIZERS** 

There is an axiom that "what grows one year will decay the next." So among the economies prac-ticed by the European and which must not be confused with that which is miserliness or stinginess is the use of a compost heap. This practice could well be copied here. Not only the individual American but our great cities throw away vast quantities of that which might be composted. The gardener had best select a spot removed from the residence and there save continually all weeds, grasses, leaves, poultry and stable manure, soot, hoof and horn parings, bones, unused vegetables and fruit and refuse from the table. Earth and phosphate can be added to this compost heap, and while the heap should be kept moist enough to decay, it should be protected by a roof from rain. Later this compost should be spread upon the soil and plowed or spaded in.

As man advances he asks more varied kinds of foods. Or should we say as man secures more varied kinds of food he advances? So for plants as for animals, they are best fed when given many kinds of food. This is one of the reasons why the compost heap is so valuable. It is very probable that our com-As we expect different foods from day to day for ourselves, now we are changing and rotating fertilizers. The plant's dinner must not be the same on each bill of fare. Just as too much of one food might make our horse or ourselves ill, so we must not surfeit or sicken our plants by one food, good as that food

may be. Experience has taught, with few exceptions, that the same crop is not to be grown year after year on the same soil. The crops are to be rotated. In the gardens and flower beds as in the field this should be true. If cabbage were on the east side last year, then put something besides cabbage or some-thing in no way related to cabbage there this year. To think about gardening is to come to the conclusion that it is wise to rotate crops and equally wise to rotate or change fertilizer.

As nature makes an attempt to keep all soils busy and all bare spots covered up, so, whenever possible, man should plant cover crops and plow or spade them under. Rye and vetch planted in the fall and in

the spring spaded in is an excellent method of green manuring. Fertilizer is a big word. Shade from trees or buildings is another lack of fertility. The poisonous fumes from factories kill plants, so plants do breathe. After all, much or most of our fertilizer is just sunlight or air. While most of the world's fertility does not reach us as freight, some very good fertilizers that it is wise to use does come done up in bags.

Think of the organisms or bacteria that live in the soil as laborers living and working in their home and that they need material with which to work. These tiny workmen, we say, make the plant food available. So not only are workmen necessary, but we must supply them with the raw material with which to work. Some of the things we may add to the garden may contain with new workmen, call them micro-organisms if you wish, one or several raw materials as well. Other materials we supply to our gardens may contain only these elements or materials which we class as phosphates, potash and nitrogen. We say a fertilizer is complete when it contains these last three named elements. The word fertilizer suggests one or more of these three elements put up in bags and known as commercial fertilizer. If the manufacturers of commer-cial fertilizer have had a weakness it has been in their lack of effort to teach that their product is not an antidote for the poison of poor farming or gardening. No one who can see and think can doubt its profitcharterenzer have had a weakness it has been in their lack of effort to teach that their product is not an antidote for the poison of poor farming or gardening. No one who can see and think can doubt its profit-able and necessary use. Such a use must go hand in hand with other good practices, like soil draining, subsoiling, liming, deep plowing, stable and green manuring, the rotation of crops, possibly the rotation of fertilizers, thorough cultivation and the use of good seed. The Analysis and Price of Fertilizers Upon Request. The analysis tells the truth but not the whole truth. Just as there is a choice between good pieces of cloth so where good "guano" is concerned there is a preference. In buying fertilizer do not think of the tons of weight that are carried to the farm

or garden, but rather be concerned more about the pounds of plant food and the conditions of that plant food.

food. Pulverized Sheep Manure. Humanity builds the results of its learning into little sayings, of them one is, "The sheep's foot is gold." Generations of farmers learned that where the sheep were kept or pas-tured later grew rich crops. So we are offering sheep manure that has been pulverized, screened and dried till it contains no weed seed and is in the most perfect condition for handling. Where the ant was found to follow the application of bone meal to lawns, the application of this Pulverized Sheep Manure was fol-lowed only by good results. Its effect is not only immediate but lasting. For a potting soil one part of this manure to six parts of the soil was found to be preferred. For the making of a liquid manure one pound to six gallons of water was superior. It has no objectionable odor, nor does it offend by its appear-ance. When heavily and freshly applied to lawns it is barely discernible. A heavy application is not to be feared but to be advised for house plants, lawns, flower gardens, fruit or vegetables. Prices upon request. request.

### A PAGE ON FUNGICIDES AND INSECTICIDES

The attempt to summarize the militant ways of man in his battle with disease, fungi, and insects that attack our plant world would be, because of its brevity, somewhat imperfect. This quickly developed science that is rapidly progressing fills volumes of space. In the effort to be brief, which means we cannot be concise, we might say of the plants' enemies that they are: first, fungous diseases; second, insects that eat or chew the plant; third, insects that suck the plants' juices; fourth, insects that bore into the plant.

FIRST. The Fungous Diseases of plants may be thought of as blight, mildew, spot, speck, dry rot, black rot, rust, scab or mold, etc. The remedies applied are called Fungicides. They may be preventative or cures, or both. Some of them are

as follows:

#### Bordeaux Mixture.

Dissolve the copper sulphate by putting it in a bag of coarse cloth and hanging this in a vessel holding at least 4 gallons, so that it is just covered by the water. Use an earthen or wooden vessel. Slake the lime in an equal amount of water. Then mix the two and add enough water to make 40 gallons. It is then ready for immediate use.

#### Ammoniaca Copper Carbonate.

The copper carbonate is best dissolved in large bottles, where it will keep indefinitely, and it should be diluted with water as required.

#### Copper Sulphate Solution.

Dissolve the copper sulphate in the water, when it is ready for use. This should never be applied to foliage, but must be used before the buds break. For peaches and nectarines use 25 gallons of water.

Practically all insecticides and fungicides are now put up in concentrated form, saving the gardener the trouble of mixing the ingredients. Frequently this prepared ar-ticle is superior to that which could be mixed at home and often cheaper. In this buying one has a choice as between the fluid, paste or dry forms at times.

but as it is more caustic it should be applied with lime, or with the Bordeaux mixture.

Hellebore. Fresh White Hellebore.....1 ounce Water ......3 gallons

Arsenate of Lead. Among the insecticides none stand higher than this. It adheres and does not injure the most tender foliage, does not readily wash off and as it is white it shows where it has been applied. It remains so well sus-pended in solution as to give an even distribution.

Apply when thoroughly mixed.

SECOND. Insects that chew or eat the plant may be bugs, caterpillars, worms or slugs. The poisons we feed to this class of our enemies we call Stomach Poisons and some of them are:

#### Paris Green.

Paris Green ..... 1 pound Water ...... 250 gallons

#### London Purple,

This is used in the same proportion as Paris Green,

THIRD. Insects that suck the juices of plants may be plant lice, mealy bug, green and black fly, red spider, scale, etc. The poisons we apply to this class of our enemies kill by striking through the insects skin and are referred to as Contact Poisons, some of them are:

#### Kerosene Emulsion.

Dissolve the soap in the water, add the kerosene, and churn well with soap for 5-10 minutes. Dilute 10 to 15 times before applying.

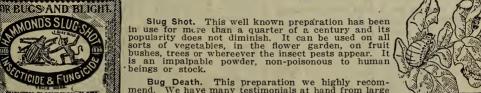
SH BAG

Tobacco Dust or Tea.

The aphis or plant louse is not apt to go where there is tobacco dust and a tea made from tobacco, just to-bacco boiled in water till the water is dark, is an ex-cellent remedy for this class of pest.

FOURTH. Insects that bore into the tree or plant are retarded or injured by having Tanglefoot put in their way or Fish-Oil Soap or Whale-Oil Soap smeared or washed upon the plant's trunk.

Frequently some combinations of the above Fungicides and Insecticides may be made with advantage, as Bordeaux with Arsenate of Lead, or Kerosene Emulsion with Paris Green. Again, in advertised articles upon the market are found some very superior combinations, two of which we list below.



Bug Death. This preparation we highly recom-mend. We have many testimonials at hand from large vegetable growers and we feel confident in offering it with our endorsement to any of our customers who want a quick-acting, non-poisonous bug killer. It can be used on all house plants, vegetable and fruit crops, with excellent results.



The application of remedies for fungus or poison for insects may be by dusting, using a powder gun, duster or bellows, and the liquids applied with a syringe, spray pump or vaporizing bellows. To apply these remedies or poisons when fruit is in bloom may kill the bees and affect pollination. Keep all poisonous properties under lock and key if possible, where poultry, stock and human beings are not apt to reach it by accident.

### DESCRIPTIVE CATALOGUE OF SEEDS

# USEFUL INFORMATION

LEGAL WEIGHTS an	d MI	EASU	RES	-Pou	unds	Per	Bus	hel.	REFERENCE TABLES
ARTICLES	111s.	·Ia.	Wis.	Mich.	Ind.	Mo.		Ohio	Quantity of Seed Requisite to Produce a Given Number of Plants and Sow an Acre.
Apples, dried	24 50	24	28	22	25	24	22		Quantity per Acre. Artichoke, 1 oz. to 500 plants
Apples, green Bran Barley Beans, white Beans, Castor Buckwheat Broom Corn Seed	48	20 48 60	20 48 60	$\begin{array}{c c} 20 \\ 48 \\ 60 \end{array}$	48 60	20 48 60	$\begin{bmatrix} 20\\ 48\\ 62 \end{bmatrix}$	20 48 60	Asparagus, 1 oz. to 800 plants
Beans, Castor Buckwheat	46 52	$\frac{46}{52}$	46 50		46 50	$\frac{46}{52}$	46 $48$	46 50	Beans, Dwarf, 1 pint to 100 ft. of drill 1 bu.
Beets	60	46 	46 50	46	46	46	46	- 30 56	Beet, garden, 1 oz. to 100 ft. of drill
Carrots Charcoal	55 22	$\dot{2}\dot{2}$	$     \begin{array}{c}       50 \\       22     \end{array} $	<b>2</b> 2	<u>.</u>	50 22	$\dot{2}\dot{2}$	50	Brussels Sprouts, 1 02. to 5,000 plants 2 02.
Coal, stone	80 40	80 38 56			 56	80 56		80 40	Buckwheat         ½         bu.           Cabbage, 1 oz. to 3,000 plants
Coke Corn, shelled Corn, ear Corn Meal	70 48	$\begin{array}{c} 56 \\ 70 \\ 48 \end{array}$	$\begin{array}{c} 56 \\ 70 \\ 48 \end{array}$	$     56 \\     70 \\     50   $	68 50	70 50	56 70 50	56 68 50	Buckwheat $\gamma_2$ buckwheat $\gamma_2$ buckwheatCabbage, 1 oz. to 3,000 plants.2 oz.Carrot, $\frac{1}{4}$ oz. to 100 ft. of drill. $2\frac{1}{2}$ lbs.Cauliflower, 1 oz. to 3,000 plants. $2\frac{1}{2}$ oz.Celery, 1 oz. to 15,000 plants.2 oz.Chicory $2\frac{1}{2}$ oz.Clovery $4$ lbs.
Cranberries Dried Peaches	$\frac{33}{23}$	23	28	$\begin{vmatrix} 40 \\ 28 \end{vmatrix}$	33 33	33	32	33	Chicory
Flax Sced Grass Seed, Blue Grass Seed, Clover Grass Seed, Hungar'n	$\begin{array}{c} 56 \\ 14 \\ \end{array}$	$56 \\ 14$	56 14	$56 \\ 14 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	56 14	$56 \\ 14$	56 15	56 10	Chover, Alsike and White Dutch
Grass Seed, Clover Grass Seed, Hungar'n Grass Seed, Millet	60 48 50	$\begin{array}{c} 60\\ 48\\ 48\\ 48\end{array}$		$     \begin{array}{c}       60 \\       50 \\       50     \end{array}   $	60 50		60 48	60 50 50	Clover, Large Red and Medium
Grass Seed, Millet Grass Seed, Orchard. Grass Seed, Red Top. Grass Seed, Timothy.	$     14 \\     14 $	14     14	14	$     \begin{array}{c}       30 \\       14 \\       14     \end{array}   $	$     \begin{array}{c}       30 \\       14 \\       14     \end{array}   $	$\begin{array}{c} 14\\ 14\end{array}$	$     14 \\     14   $	14 14	Corn, sweet, ¼ pint to 100 hills
German Lupine	00	45 ••	45 	45	45	45	44	45	1  Egg Plant.  1  oz.  10  z.900 plants
Hemp Seed	44 50	44	44	44	44	44	44	44	Endive, ¼ oz. to 100 ft. of drill
Hickory Nuts Malt, Barley Mineral Coal	$     \begin{array}{r}       38 \\       40 \\       40     \end{array} $	36	34	38 ••	$     \begin{array}{c}       38 \\       70 \\       40     \end{array}   $	38	34	34	Garlic, bulbs, 1 lb. to 10 ft. of drill
Middlings, fine Middlings, coarse Oats	30	··· 32	32	··· 32	$\begin{array}{c} 40\\ 30\\ 32 \end{array}$	32	32	32	Grass, Hungarian and Millet
Onions Onions, tops	57 28	$\frac{57}{28}$	57 28	54 28	48 28	$\frac{57}{28}$	57 28	50 25	Grass, Red Top, Fancy, Clean8 to 10 lbs. Grass, Red Top, Chaff Seed20 to 28 lbs.
Oats Onions Onions, tops Onions, sets Osage Orange Parsnips Patotics	32 33	::	••	•••		· · · 2 :	•••		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Parsnips Potatoes Potatoes Sweet	50	60 46	60 55	$\begin{array}{c} \dot{60}\\ 56 \end{array}$	55 60 55	$     54 \\     60 \\     56   $	60 55	60 50	Hemp
Peas, dried Peas, in pods	60 32	• 60	60	60	60	60	60	60	Kale, 1 oz. to 5,000 plants
Potatoes Potatoes Peas, dried Peas, in pods Pop Corn Quick Lime Rye Salt course	70 80	80	80	80	$\begin{array}{c} 70 \\ 80 \end{array}$	80	80		Leek, <sup>1</sup> / <sub>3</sub> oz. to 100 ft. of drill 4 lbs. Lettuce, <sup>1</sup> / <sub>4</sub> oz. to 100 ft. of drill 3 lbs.
Rye Salt, coarse Salt, fine Turnips, Rutabaga	56	$56 \\ 50 \\ 50$	56.	56 50	56 50 50	$56 \\ 50 \\ 50$	56 50 56	56 50 50	Martynia, 1 oz. to 100 ft. of drill
Turnips, Rutabaga Turnips, white	55	55	56 56 42	56 58	55	50 50 42	55	60	Nasturtium, 2 oz. to 100 ft. of drill
Wheat	60	60	60	60	60	60	60	60	$ \begin{array}{l lllllllllllllllllllllllllllllllllll$
4 pecks, 1 bushel; 36	bush	iels,	1 ch		on.				Onion Sets, 1 quart to 4) ft. of drill
Liquid Measure. 4 quarts, 1 gallon; 3	4 gi. 1½ g	alloi	ns, 1	bar	pin rel;	$\begin{array}{c} 1 \\ 2 \\ 2 \\ \end{array}$	rrel	art; s, 1	Peas, garden, 1 pint to 100 ft, of drill,1 to 3 bu.
hogshead. Measurements of a found useful in arriv				he fo					Pepper, 1 oz. to 1,500 plants 3 oz. Pumpkin, ½ quart to 100 hills 3 to 4 lbs.
amount of land in cultivation: 5 yards one acre, as do al	diffe	rent bv	piec 968	es o vard	of gr	ound	d un contr	nder ains	Radish, <sup>3</sup> / <sub>3</sub> oz. to 100 ft. of drill10 to 12 lbs. Rye
one acre, as do al 10 yards wide by 484 yards long; 40 yards	so t yard	he ls lo	follo ng;	wing 20 ya	me ards	asur	eme by	nts: 242	Salsify, ¾ oz. to 100 ft. of drill
wide by 69½ yards lo	ng;	60 fe	et w	ride t	oy 72	26 fe	et lo	ong;	Sunflower 8 lbs. Squash, Summer, 4 oz, to 100 hills 2 lbs.
110 feet wide by 396 f long; 220 feet wide b 181½ feet long, and a	teet 1 9y 19 140 f	ong; 8 fee	et lo:	1eet ng; 2 by 9	W106 240 f	e by eet	363 wide	by	Squash, Winter, 8 oz. to 100 hills 2 lbs. Tomato, 1 oz. to 4.500 plants 2 oz.
Number of Plants or T									Tobacco, 1 oz. to 5,000 plants
Dis. Apart. No. P	lants	$\begin{bmatrix} 5. \\ 0 \end{bmatrix} \begin{bmatrix} D \\ 36 \end{bmatrix}$		part. in			. Pla	nts. 1,480	Average Time Required for Garden Seeds to Germinate.
12x 1 in 12x 3 in 12x12 in 16x 1 in	74,24 43,56	$\begin{array}{c c} 0 & 42 \\ 0 & 42 \\ \end{array}$							Days.         Days.         Days.           Bean         5 to 10         Lettuce         6 to 8           Beet         7 to 10         Onion         7 to 10
18x 1 in	348,48	0 48	2x36 3x12	in	• • • • • •	••••	10	148 ,890	
18x 3 in1 18x12 in1 18x18 in	29.04	0   48	8x18 8x24 8x30	in	••••	••••		6,790 6,445	Carrot
18x18         in	313,63 15,68	5 48	8x36 8x48	in in				3,630 2,723	Carbod ge
24x 1 in	261,36 15,52	$   \begin{array}{c c}       0 & 60 \\       0 & 60 \\       0 & 60   \end{array} $	0x36 0x48	in in				2,901 2,178	Time Required for Maturity of Different Garden Crops
24x18 in 24x24 in 30x 1 in	10,89 209,08 34 84	8 6	8x 1 8x 3	in in in in in in in in in ft	• • • • •	••••		L,743 5,445 L,815	Reckoned from the Day of Sowing the Seed. Days. Beans String 45 to 55 Molon Music 120 to 140
30x12 in 30x16 in	17,42 13,06		8x 8 0x 1	ft ft	••••			680 4,356 726	Beans, String         45 to         55         Melon, Musk         120 to         140           Beans, Shell          65 to         70         Melon, Water        120 to         140           Beets, Turnip          65         Onion
30x20 in 30x24 in	10,45	$ \begin{array}{c c} 4 & 1 \\ 2 & 1 \\ 0 & 1 \end{array} $	0x10	ft ft ft				435	Beets, Long Blood 150 Pepper
30x24 in 30x30 in 36x 3 in 36x12 in	14.52	0   1	2x 5	ft			••	3,630 736 302	Cabbage, Early 105 Cabbage, Late 150 Cauliflower
36x18 in 36x24 in	9,68 7,26		6x 1 6x16	ft ft ft			2	2,722 170	Eggplant         150         to         160         Tomato         150           Lettuce         65         Turnip         60 to         70

#### FLOWER SEEDS

Per Pkg

AGERATUM, blue or white -	5
ANTIRRHINUM, fine mixed -	5
ASTERS, fine mixed	5
" blue giant branching -	10
White Glant Draneuring -	10 10
HOHENZOLLERN, Fine Mixed, White,	10
CARLSONS, White, Red Pink, Lavender or Purple	10
ALYSSUM, Little Gem or Sweet Alyssum	5
AQUILEGIA, Columbine, Fine Mixed, Blue or White -	5
BALSAM, Double Camellia Fld - "Fine Mixed -	$5\\5$
CANDYTUFT, Fine Mixed - "Hyacinth Flowered -	อ 5
CALLIOPSIS, Golden Ray -	<b>5</b>
CANNAS, Fine Mixed -	5
CARNATIONS, Marguerite Fine Mixed	õ
CELOSIA CRISTATA. (Cockscomb) Dwarf	
Yellow, Dwarf Red, Tall Red or Tall Mixed	5
CELOSIA PLUMOSA, Feathered Varieties	U
Crimson Orange	5 5
CENTAUREAS, Blu - Cornflower - "Mixed Cornflower -	5 5
COSMOS. Farly Fld Mixed - "Giant Fld Mixed -	5 5
CYPRESS VINE, Fine Mixed -	5
DATURA, White Trumpet -	õ
DIANTHUS, Double Chinese Pinks,	
Heddewigi Double Mixed, Imperial	
Pinks Mixed, or Lacintatus Fringed Pinks	5
SWEET WILLIAMS, Double Mixed	5
" " Single Mixed	õ
DOLICHO, Flowering Bean, Fine Mixed	5
FORGET-ME-NOT, Blue, Mixed or White	5
HOLLY HOCK, Double Mixed	5
" " Single Mixed " " Allegheny Mommoth	5
Fringed Mixed	õ
LARKSPUR, Double Mixed, Tall Mixed, or Dwarf Mixed	5
LOBELIA, Fine Mixed -	5
MARIGOLD, Dwarf Mixed or Tall Mixed	.)
MARVEL OF PERU, Four O'Clocks Mxd.	5
MIGNONETTE, Machet -	5
MOONVINE, White Seeded -	õ
MORNING GLORY, Fancy Mxd. or Japanese	5
PANSY, Giant Mixed - : '' Fancy Mixed -	10 5
PETUNIAS, Fancy Mixed -	5
"California Giant - "Ruffled and Fringed -	25 10

PHLOX DRUMMONDI, Fine Mixed	5
PORTULACA, Single or Double Mixed	5
POPPIES, Fine Mx. Carnation fld, Shirley M	Ix. 5
RICINUS, Flowering Castor Oil Bean	5
SALVIA, Zurich Dwarf Red Bonfire	10 5
STOCKS, Best Mixed -	5
VERBENAS, Fine Mixed -	5
ZINNIAS, Fine Mixed -	5

#### Plant Department. Bedding Plants

We will have a full line of bedding plants for spring, in all sizes. All plants travel at purchasers expence. Plants are taken from the pots. and the soil left on the roots, this ball of earth is carefully wrapped with paper to protect the roots in shipping, the figures 2 in. means that the plants are from 2 inch pots, 3 in. 3 inch pots.

#### AGERATUM.

Princess Pauline, 2-in. 50c doz., \$3.00 per 100. 3-in. \$1.00 doz.; 4-in. \$1.50 doz.

#### ALTERNANTHERA.

Red and Yellow, 2-in. 50c doz., \$3.00 per 100.

BEDDING BEGONIAS, Erfordia and Vernons.

2-in. 50c doz., 3-in. \$1.00 doz.

#### COLEUS

Big Variety of colors, 2-in. 50c doz, 3-in. \$1.00 doz.

#### CANNAS.

Standard sorts and colors; 3-in. \$1.00 doz., -4-in. \$1.50 doz.

#### **GERANIUMS**.

All colors, both single and double; 2-in. 50c doz., 3-in. \$1.00 doz., 4-in. \$1.50 doz.

#### HELIOTROPE

White and blue; 2-in. 50c doz., 3-in. \$1.00 doz., 4-in. \$1.50 doz.

#### SALVIA.

St. Louis, Splendens and Zurich; 2-in. 50c doz., 3-in. \$1.00 doz., 4-in. \$1.50 doz.

#### DOUBLE PETUNIAS.

Pink, white, red and spotted, 50c, \$1.00 and \$1.50 doz.

FEVERFEW. .

4-in. 15c each, \$1.50 doz.

#### MOON VINES.

3-in. \$1.00 doz., 4-in. 2 for 25c.

#### **DUSTY MILLER for Borders.** 2-in. 50c doz.

#### BULBS FOR SPRING PLANTING.

CALADIUMS.

10c, 15c, 25c each, according to size.

### J. W. ROSS COMPANY CENTRALIA, ILLINOIS

TUBE ROSES.

5c each; 6 for 25c.

#### **GLADIOLUS**

Fine mixed, 25c doz.

Americus Mrs. Francis King and Augusta, 50c doz., \$3.00 per 100.

#### DAHLIAS-Supply Very Light.

Wm. Ross Best Red, 30c each; Sylvias and Blushing Beauty, 10c each; Storm King, 20c each; Golden Age 20c.

#### FERNS.

Boston, Whitmanii, Elegantissima, Anna Foster and Ferns of this class, 4-in. pots, 25c; 5-in. 50c; 6-in. 75c; 7-in. \$1.00; 8-in. \$1.50; 10in. \$2.00 to \$3.00.

#### ASPARAGUS, SPRENGERII and ASPARAGUS FERN.

3-in. heavy, 15c, 4-in. 25c, 5-in. 50c.

#### ARUCARIAS.

We have at present a very fine lot of Arucarias ranging in price from \$1.00 to \$4.00 each. As these beautiful plants are all grown in Belgium, we do not expect to be able to get any more soon on account of the war. We can supply Palms, Dracenas, Rubber Trees and Sago Palms in all sizes and varieties at popular prices.

#### VIRCA VINES.

Vinca Vines are much used for Porth and window boxes and for urns. We have a nice lot of these vines at 10c and 15c.

#### SHRUBS-

Berbery.

Thunbereggi specimen plants, 50c each; small for hedges, 25c each, \$20.00 per 100. Vulgaris, 50c.

#### CALIFORNIA PRIVET.

Heavy 2-yr. plants, well branched, \$8.00 per , 2-yr. nice stock, \$6.00 per 100. /60

#### HYDRANGEAS.

Shrub form 2-yr. good, 50c; tree form, \$1.00 each.

#### SPIREA.

S. Van Houteii, 2-yr. heavy, 50c; S. Anthony Waterer, 50c; S. Thunbergeii, 50c.

#### SYRINGA.

S. Grandiflora or Mock Orange, 50c.

#### ALTHEA.

Red, White, Purple, 2 yr. 50c.

CALYCANTHUS.

Sweet Scented Shrub, 2 yr. 50c.

#### FORSYTHIA.

2-yr. 50c.

DOG WOOD. 2-yr. 50c.

#### FLOWERING CURRANT 50c.

#### DEUTZIA.

Pride of Rochester, 50c.

#### TEAS WEEPING MULBERRY.

Stems 6-ft. high, \$2.50 each Stems 4-ft. high, \$1.50 each.

CATALPA BUNGEH or UMBRELLA TREE \$1.00 and \$1.50 each.

#### NORWAY MAPLE

10-ft. \$1.50 each.

#### CAROLINA POPLAR

We have a big stock of these. 10-ft. light, 25c, heavy, 40c; 12-ft. 60c; 14-ft. \$1.00; extra heavy, \$1.50.

LINDEN AND SWEET GUM.

\$1.00 and \$1.50 each.

#### SOFT MAPLE.

Limited supply 25c to \$2.00 each, depending on the size.

#### APPLE TREES.

Red June, Benoni, Early Transparent, Rome Beauty, Maiden Blush, Jonathan, Grimes Golden, Wine Sap, Ben Davis, 5 to 6 ft., 35c; 4 to 5 ft. 25c.

#### PEACH TREES.

5 to 6-ft. 25c; 4 to 5-ft. 20c; 3 to 4 ft. 15c each. Elberta, Heath Cling, Crawford, late and early, Smock, Reeves Stump, Old Mixon.

#### PLUM TREES.

50c each. Wickson, Burbank, Abundance, Shippers' Pride and Damson.

#### PEAR TREES.

Kieffer, Garber, Duchess, Bartlett, Seckle, 50c each.

#### CHERRY TREES.

Early Richmond, Montmorency, Gov. Wood, Napolian, Dye House, 50c each for 2-yr. Ea. Richmond and Montmorency, 1 yr. 25c.

#### **OUINCE TREES.**

50c each.

#### GRAPE VINES.

Concord, Mores Early, Niagara, Brighton, Delaware, Worden, Pocklington and Woodruff red, 2-yr. heavy, \$2.00 doz., 25c each.

#### GOOSEBERRY

Houghton and Downing, 2 yr. \$2.00 doz.

#### CURRANTS.

Fay, Red Dutch and Cherry and White Dutch, 2 yr. \$2.00 dozen.

#### ROSES.

Our Rose List will be issued later. We will have a very heavy stock of 1-yr. roses comprising about 50 varieties, most of which will be included in our spring sale at 10c each.

SEE OUR SPECIAL SEPARATE SHEETS FOR ROSES.

# The 4 Grapes to Buy

Every one should Plant these 4 Choice Grapes

MOORES' EARLY Best black sort; very large and showy and of excellent quality,

BRIGHTON Rich wine shade, and of highly aromatic flavor; best red sort.

And long enjoy the luscious fruit of the vine.

NO. 730

NIAGARA Best white sort; a general favorite for home or market use,

CONCORD Very hardy, productive and popular; successful over a wider range of soil than any variety.

# 4 CHOICE GRAPES FOR ONLY \$1.00 THINK OF IT OUR BIG 4 GRAPE COLLECTION

We offer our patrons something that will prove an ever-increasing source of delight and profit; something that if properly planted will practically care for itself, yielding its luccious fruit annually to please the palate and afford an arbor of shade on warm sultry days—the Brighton (red), the Niagara (white), the Moore's Early (blue black) and the Concord (black) —and offer them to our patrons at an

### EXTREMELY LOW PRICE.

This will give every one, rich or poor, an opportunity to purchase these choice varieties. These grapes are the finest of their kinds, and ripen after each other so that there will be a succession of fruit during the whole grape season. They can be planted anywhere—at the side of the house or to cover some unsightly object in the yard. They should be planted from eight to sixteen feet apart. The Brighton should be planted between two of the others, as this will increase its fruitfullness, insuring a more thorough fertilization of the blossoms. This is an important point, making certain an abundant yield from this most delicious family grape.

### BRIGHTON.

Our experience with the Brighton has convinced us more thoroughly of its superiority as a family grape. Its remarkable vigor and hardiness of vine, large compact bunches, rich wine shade of the ripened berry, delicate skin, tender and almost seedless pulp, sugary juice and rich flavor, are combined qualities that are not united to such a degree in any other sort with which we are acquainted. It ripens a week to ten days before the Delaware and bears most abundantly; having thick, large foliage it is enabled to withstand the heat of the summer, and being a vigorous grower, it exhibits extreme hardiness, and is enabled to endure the winter in extreme localities.

### CONCORD.

The standard black, well known and popular everywhere.

#### NIAGARA.

Is a remarkably strong grower and very hardy; the leaves are thick and leathery and dark glossy green; bunches very large and uniform, and very compact; berries large or larger than the Concord, and skin thin but tough which insures their shipping qualities; quality good, very little pulp, melting, and sweet to the center; ripens with the Hartford. One of our best white grapes.

### MOORE'S EARLY.

Is very large and showy, and is remarkable for size, beauty, productiveness, earliness and hardiness. It matures about ten days before Hartford, and twenty days earlier than Concord. Fruit black, very large and handsome, with a heavy bloom. Quality about the same as Concord; vine exceedingly hardy. It has stood 20 degrees below zero, and has been exempt from mildew and disease. Especially adapted as a market and family grape for New England and the Northern portion of the United States and Canada.

Will give Black, Red and White Grapes the entire Grape Season.

# THE 4 FOR \$1.00 or 3 of Each for \$2.00 J. W. ROSS CO., CENTRALIA, ILL.

# We Respectfully Submit the Following Suggestions for Your Consideration

- 1. That a larger vegetable diet instead of much meat possibly might be of benefit to your health and that of your family.
- 2. That a diet of vegetables is more economical than a meat diet.
- 3. That the kitchen garden is the surest way of securing fresh vegetables, as the purchased vegetable is most frequently old and inferior.
- 4. That if you do not plant your yard and care for it, the weeds will grow and become ugly and offensive.
- 5. That you plant your vegetables in long rows instead of little beds and do without stooping, the work of six hoes with our wheeled garden cultivator.
- 6. That the work of making a garden is as healthful a physical exercise as golf and as mentally stimulating as chess, the work for ladies and gentlemen.
- 7. That no house can be complete in its setting without well-kept gardens, lawns and flowers.
- 8. That no place can possibly be mean that has about it gardens, lawns and flowers grown from our vegetable, grass and flower seed.
- 9. That we buy seed in bulk that is fresh and tested; not old and returned commission seed.
- 10. That the superior seed we handle is here within your reach when you want it without the trouble, expense and delay of sending for it.
- 11. That this seed is as reasonable in price and as good seed as can be secured.
- 12. That in buying your seed or other supplies of us, you are keeping the dollars and pennies at home.
- 13. That we certainly do appreciate your trade fully.
- 14. That you buy at once before some varieties of seed, made scarce by the war and bad climatic conditions, be exhausted.
- 15. That if you will submit us a list of your future seed wants upon which we may figure, we will save you much more than the express or postage plus the cost of sending and be here to see the result of the seed we sell you.

POULTRY SUPPLIES HOLLAND, FRENCH AND JAPANESE BULBS